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E29952-00

STEALTH™ ASC24BT

24" Cylindrical Scrubber with Traction Drive

Operator and Parts Manual

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TABLE OF CONTENTS

RECEIVING THE MACHINE..... 3
TECHNICAL SPECIFICATIONS..... 4
GENERAL SAFETY REGULATIONS..... 5
MACHINE PREPARATION.....6 - 12
OPERATION .....13 - 14
TURNING OFF THE MACHINE 15
DAILY MAINTENANCE.....16 -17
WEEKLY MAINTENANCE..... 18
TROUBLESHOOTING 19
BRUSH AND SELECTION USE..... 19
PARTS DIAGRAMS AND LISTINGS.....20 - 44
BATTERY CHECK CARD – HOUR METER..... 45
WATER PLANT INSPECTIONS 45
BRAKE ADJUSTMENT..... 46
VACUUM SYSTEM INSPECTION..... 46
SQUEEGEE ADJUSTMENT 47
CHECK LIST..... 48
MAINTENANCE SCHEDULE..... 49
WEAR ITEMS..... 50
WARRANTY 52

RECEIVING THE MACHINE

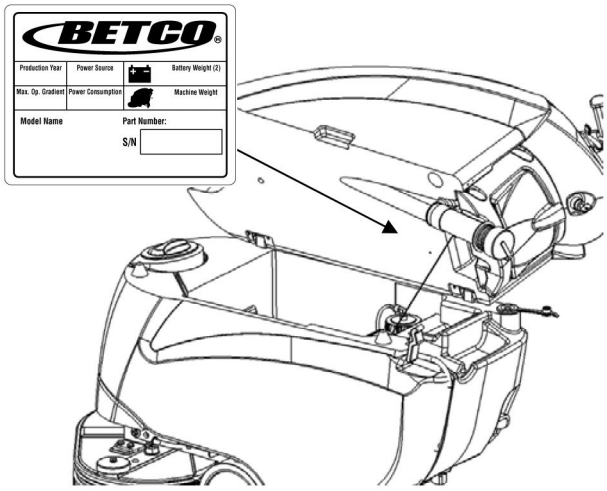
Immediately check, when receiving the machine, that all the materials indicated on delivery documents have been received and also that the machine has not been damaged in transit. If it has been damaged, this damage must be immediately reported to the shipper and also to our customer's service department. Only acting promptly in this manner will make it possible to receive missing material and to be compensated for damage.

INTRODUCTION

This is an automatic scrubber which, via the mechanical action of the rotating brush and the chemical action of a water/ detergent solution, can clean many types of hard flooring. As it advances, it also collects the dirt removed and the detergent solution not absorbed by the floor.

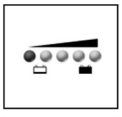
The machine must be used only for this purpose. Even the best machines will only work well if used correctly and kept in good working order. We therefore suggest you read this instruction booklet carefully and re-read it whenever difficulties arise while using the machine. Please contact our technical service department or your dealers if you have any questions about the machine.

Serial # Plate

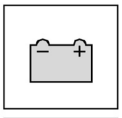


SYMBOLS USED ON THE MACHINE

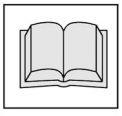
Solution valve symbol
Used to indicate the water regulation switch



Battery charge gauge



Battery symbol



Open book symbol
Used to tell the operator to read the manual before using the machine

Maximum solution temperature gauge
Located near the solution tank inlet

TECHNICAL DESCRIPTION	Measurement Unit	Stealth™ ASC24BT
Working Width	Inches	24
Work Capacity	Sq. Ft. / Hr.	32,000
Brush Width	Inches	24
Brush RPM	RPM	575
Brush Pressure	Lbs. (Kg)	110 (50)
Brush Motor	V / HP / W	24 / 0.75 / 560
Drive Type		Automatic
Forward Speed	MPH (km/h)	1.9 (3)
Maximum Grade		10%
Vacuum Motor	V / HP / W	24 / 0.5 / 310
Vacuum Motor Suction	Millibar	188
Solution Tank Capacity	Gallons (L)	21 (80)
Recovery Tank Capacity	Gallons (L)	24 (90)
Weight of Machine (excluding batteries)	Lbs. (Kg)	385 (175)
Battery Charger	V / A	24 / 25
Machine Dimensions (Length/Width/Height)	in x in x in	57 x 43 x 26
Noise Level	dBA	58

GENERAL SAFETY REGULATIONS

The regulations below must be carefully followed in order to avoid harm to the operator and damage to the machine.

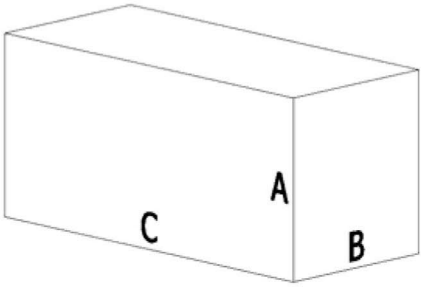
- Read all labels on the machine carefully. Do not cover them for any reason and replace them immediately if they become damaged.
- The machine must be used exclusively by authorized and trained personnel.
- When operating the machine be careful of other people.
- The machine is not designed for cleaning carpets.
- The power cable outlet must be provided with a proper ground.
- Avoid damaging the power cable of the battery charger by crushing, bending, cutting or stressing it.
- Whenever the power cable of the battery charger is damaged, immediately contact a BETCO service center.
- Do not mix different types of detergent as this may produce harmful gases.
- Do not set containers on the machine.
- Machine storage temperature is between -10°F and 130°F, never store outside under humid conditions.
- Operating conditions: room temperature between 33°F and 100°F with relative humidity between 30% to 95%.
- Only use the machine in closed areas and do not expose it directly to rain.
- Never use the machine in an explosive environment.
- Do not use the machine as a means of transport.
- Never use acidic chemicals which could damage the machine.
- Avoid running the brushes with the machine stopped; this could damage the floor.
- Never vacuum up flammable liquids.
- Never use the machine to gather dangerous powders.
- Use a powder fire extinguisher in case of fire. Do not use water.
- Do not hit against shelving or scaffolding. The operator must always be equipped with the appropriate safety device (gloves, shoes, helmet, glasses, etc.)
- Do not use the machine on surfaces with an inclination greater than the one shown on the serial plate.
- The machine is designed to wash and dry floors simultaneously. Signal the presence of wet floors with suitable signs.
- If the machine does not work properly, perform routine maintenance. Otherwise, request the assistance of the BETCO technical service.
- When replacing parts ask for ORIGINAL spare parts from your Authorized BETCO Dealer and/or Retailer.
- Always turn off the machine and disconnect the battery connector whenever maintenance is performed.
- Never remove guards that require tools for removal.
- **Never wash the machine with direct or pressurized jets of water or with corrosive substances.**
- Have your BETCO service center check the machine once a year.
- To prevent the formation of scale in the solution tank filter, do not store the machine with detergent solution in the tanks.
- Before using the machine make sure that all doors and covers are positioned as shown in this operating and maintenance manual.
- When your BETCO machine is ready to be retired, the machine must be disposed of properly. It contain oils and electronic components. The machine was built using totally recyclable materials.
- Use only brushes furnished with the machine or those specified in the user's manual. Use of other brushes can compromise safety.
- When removing the battery, unplug the battery connection, unplug the charger and disconnect the battery terminals.
- Before recycling the machine, remove the battery.

MACHINE PREPARATION

1. HANDLING THE PACKED MACHINE

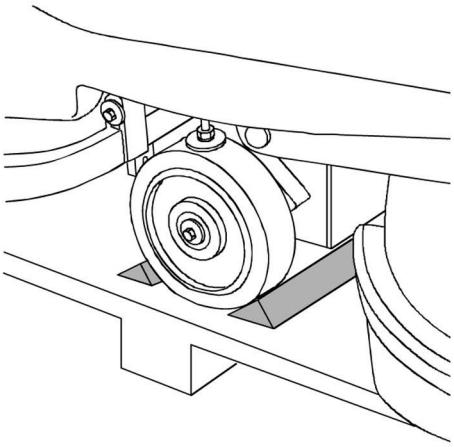
The machine is contained in specific packaging.
It is not possible to place more than two packages on top of each other.
The total weight is 735 Lbs. (335 kg).
The overall dimensions of the package are:

A: 69 in (1760 mm)
B: 40 in (1020 mm)
C: 50 in (1270 mm)

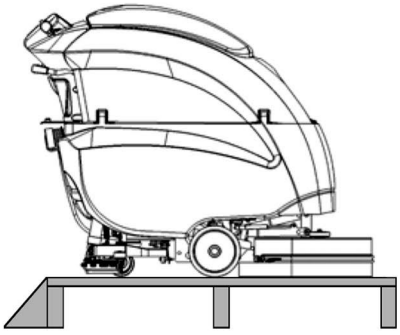


2. HOW TO UNPACK THE MACHINE

A. Remove the outer packaging.
B. The machine is attached to the pallet with wedges which block the wheels.
C. Remove these wedges.

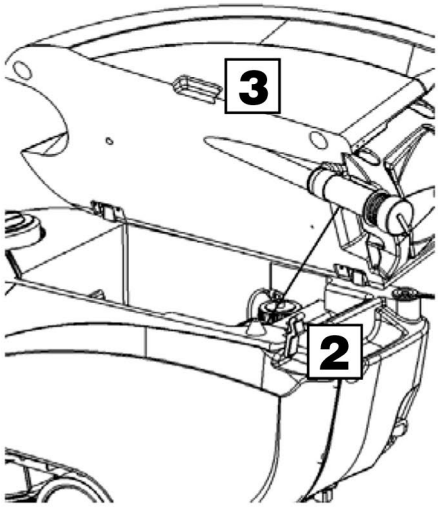


D. Use a ramp to get the machine down from the pallet, pulling it backwards.
E. Keep the pallet for any future transport needs.



MACHINE PREPARATION

3. BATTERY INSTALLATION

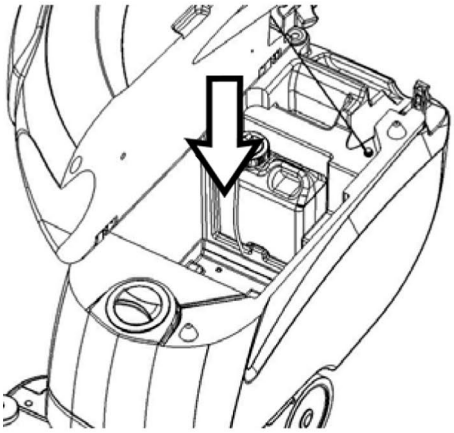


The machine will be supplied with a battery charger and either four 6V Wet Cell or AGM batteries. The batteries must be housed in the battery tray in the battery compartment beneath the recovery tank.
To insert the batteries you must:
A. Lower the squeegee and base.
B. Open the rear latch that secures the tank (**2**).
C. Rotate the recovery tank as far as it will go, using the side handle (**3**).

WARNING: To avoid acid spillage you can use sealed batteries.

WARNING: Perform one battery charging cycle before using the machine.

4. TYPE OF BATTERY

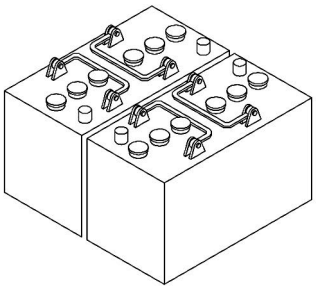


To power the machine you can use:
- Wet batteries
- AGM batteries
- Gel batteries

OTHER TYPES MUST NOT BE USED.

The maximum dimensions and weight are:
Width 6.8 in. (172 mm)
Length 14.2 in. (360 mm)
Height 11.2 in. (285 mm)
Weight 97 lb. (44 kg)

WARNING: Your charger must be set according to the type of battery you install. Call BETCO customer service to ensure correct charger setting after replacement batteries are installed.



- The batteries must be handled using lifting and transportation means suitable for the weight and dimensions.
- They must be lifted by the handles on the upper part.
- They must be connected together in series, to obtain an overall voltage of 24 V on the lugs.
- The electrical connection operations must be carried out by certified trained personnel.

MACHINE PREPARATION

5. BATTERY MAINTENANCE

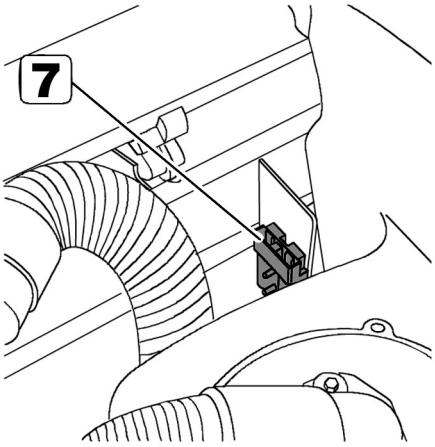
For maintenance and recharging, follow the instructions provided by the battery manufacturer.

6. BATTERY DISPOSAL

When the battery reaches the end of its life, it must be disconnected by certified professional, then lifted (using the handles and suitable lifting device) to remove it from the battery compartment.

7. CONNECTING THE BATTERY CHARGER

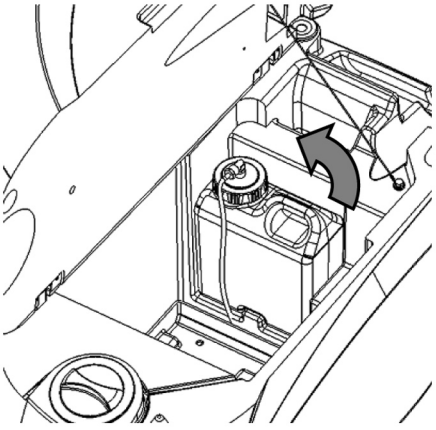
Beneath the recovery tank there is the battery connector (**7**), the battery charger connector must be plugged into. Disconnect the battery plug and plug the charger into the machine plug.



WARNING: This process must be carried out by qualified personnel. The incorrect or imperfect connection of the cables to the connector can seriously harm people and damage objects.

8. RECHARGING THE BATTERIES

Perform one complete battery charge cycle before using the machine.
Avoid totally discharging the batteries! This can cause permanent damage.
Recharge as soon as the battery discharged signal light starts to flash.



WARNING: Never leave the batteries completely discharged, not even if the machine is not being used. This can cause permanent damage to them. While recharging, keep the recovery tank raised.

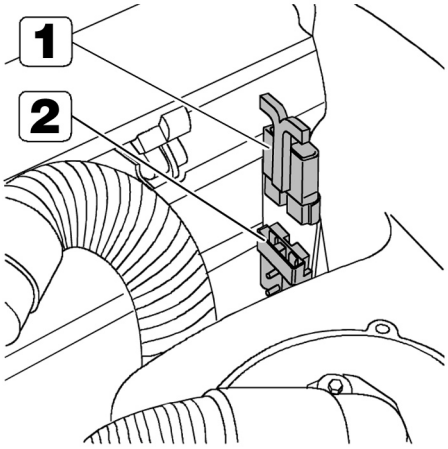
Danger of inhalation of gas and leakage of corrosive liquids.

Danger of fire.

MACHINE PREPARATION

9. CONNECTING THE BATTERY CONNECTOR

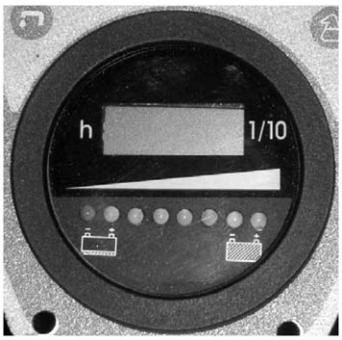
Connect the battery connector (**2**) to the machine connector (**1**)



10. BATTERY INDICATOR

The battery indicator uses LEDs and has 8 positions (7 yellow - charged batteries, and 1 red - run down batteries).

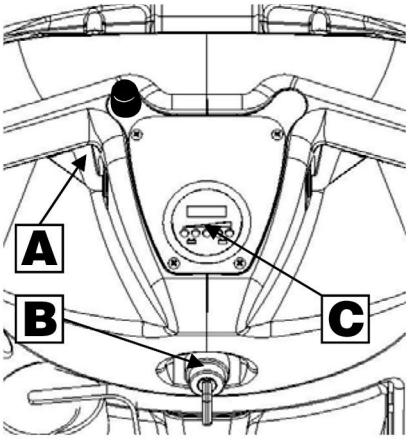
WARNING: A few seconds after the red indicator light comes on, the brush motor turns off automatically. The vacuum motor will remain in operation so that the remaining water can be removed from the floor.



MACHINE PREPARATION

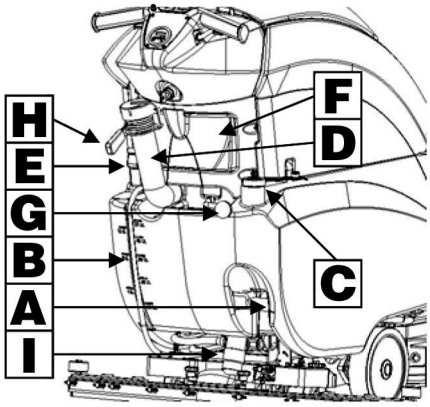
11. INSTRUMENT PANEL COMPONENTS

The instrument panel components are identified as follows:
A. Paddles to activate brushes / traction (located beneath the grip)
B. ON/OFF key switch
C. Battery level / hour meter



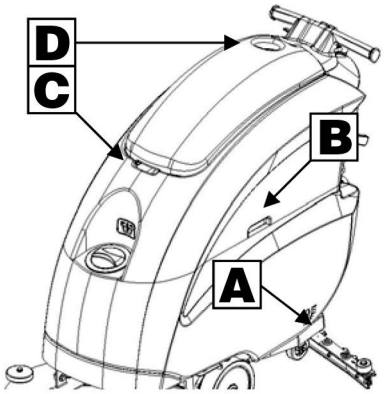
12. REAR COMPONENTS

The rear components are identified as follows:
A. Pedal to raise the brushes
B. Water level tube
C. Solution tank water inlet cap
D. Drain hose of recovery tank
E. Latch to lock down the recovery tank
F. Storage compartment
H. Lever to raise the squeegee
I. Brake lever
J. Solution filter



13. SIDE COMPONENTS

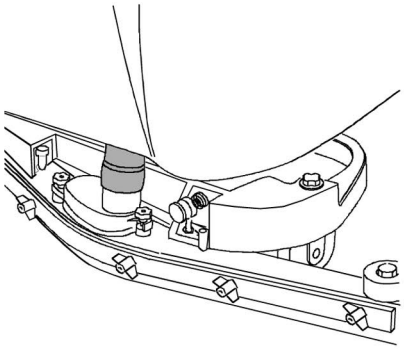
The side components are identified as follows:
A. Solution flow control valve
B. Handle to raise the recovery tank
C. Handle to raise the vacuum unit
D. Upper storage compartment



14. ASSEMBLING THE SQUEEGEE

For packaging reasons, the squeegee is supplied disassembled from the machine, and must be assembled as shown in the figure, inserting the small pin of the squeegee into the coupling mechanism until it locks into place.

Install the squeegee vacuum hose over the squeegee shoe adapter and be certain that the vacuum hose in to the right of the squeegee lift cable.

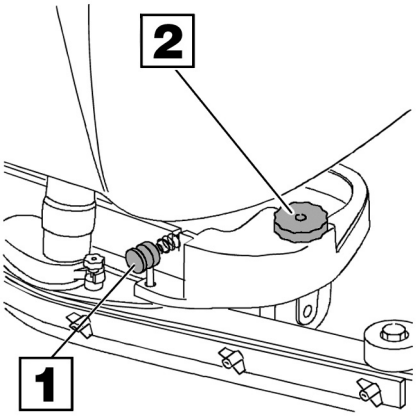


MACHINE PREPARATION

15. ADJUSTING THE SQUEEGEE HEIGHT

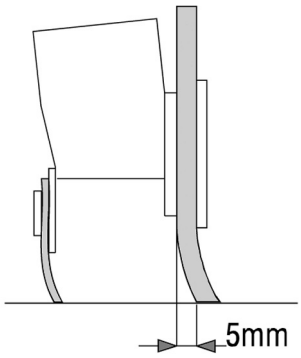
The height of the squeegee must be adjusted based on wear of the squeegee. To do this, turn the knob (**2**) counter clockwise to raise the squeegee, and clockwise to lower it.

Note: the right and left wheels must be adjusted to the same level, so the squeegee works parallel to the floor.



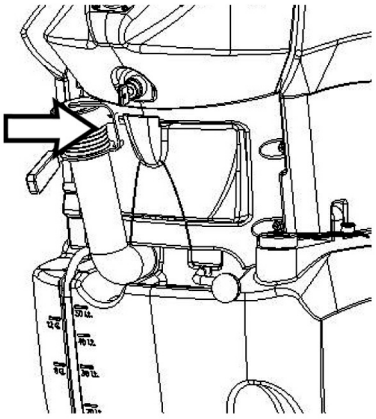
16. ADJUSTING THE SQUEEGEE INCLINATION

During working operation, the rear squeegee blade is slightly bent backwards (by about 0.2 in (5 mm)) uniformly over its entire length. If it's necessary to increase the bend of the squeegee blade in the center, you must tilt the squeegee backwards, rotating the adjuster (**1**) counter clockwise. To increase the bend of the squeegee at the outside edges of the squeegee, rotate the adjuster clockwise. After adjustment, tighten the jam nut.



17. RECOVERY TANK

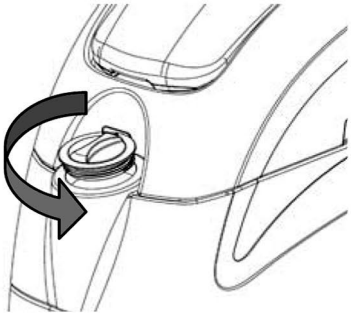
Check the drain hose cap (on the rear of the machine) to ensure it's closed.



MACHINE PREPARATION

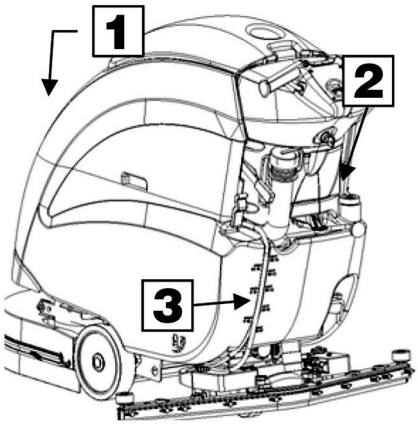
18. SOLUTION TANK

Remove the front inlet cap and check the solution filter is correctly installed. Check the solution filter cover (beneath the tank) is correctly closed.



19. SOLUTION TANK

- Fill the tank with clean water in the front fill location (**1**) or at the rear fill location (**2**) at a temperature not exceeding 120°F (50°C).
- You can check the level of solution in the tank by means of the rear sight gauge (**3**).
- Add the liquid detergent into the tank, in the concentration and manner specified by the manufacturer. The formation of excess foam could damage the vacuum motor, so be sure to use only the correct amount of detergent.



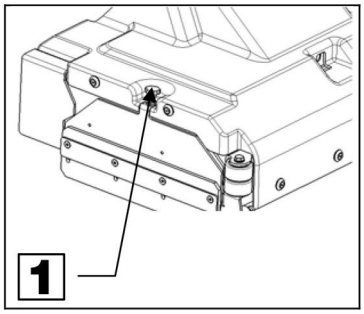
WARNING: Always use low-foam detergent. Introduce a small amount of defoaming liquid in the recovery tank before starting to work to prevent foam from being generated.

WARNING: Never use pure acids.

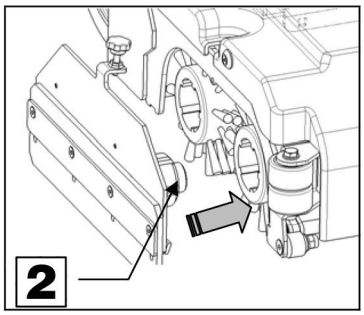
20. ASSEMBLING THE BRUSHES

Proceed as follows to assemble the brushes:

1. Use the side parking brake lever to stop the machine.
2. Raise the brush head by means of the appropriate pedal.
3. Make sure that the key switch is in the “0” position.
4. Remove the right-side splash guard by loosening the knob (**1**).
5. Insert the brush (the side with 5 teeth) in the tunnel until it couples with the dragging device hub on the opposite side of the tunnel.
6. Insert the idle hub (**2**) of the mobile support in the brush (the side with 5 teeth).
7. Repeat the operation for the second brush.
8. Reassemble the side splash guard, tightening the knob (**1**).



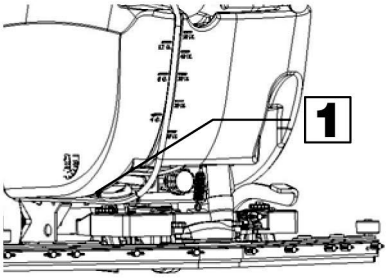
Take care how the brushes are mounted, the assembly is correct if the direction of the bristles form an X looking from above.



WARNING: You are advised to always wear protective gloves in order to avoid the risk of serious injury to your hands.

21. REGULATING THE SOLUTION

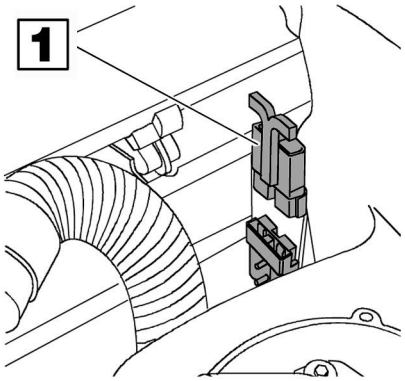
Regulate the quantity of water with the solution control valve (**1**).



OPERATION

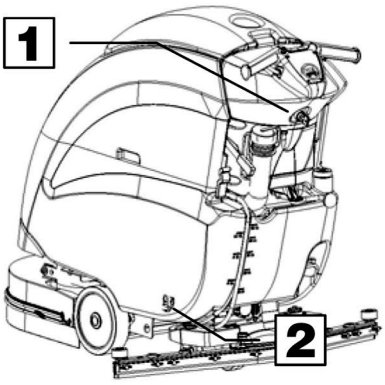
1. PREPARING TO WORK

A. Connect the battery plug (**1**) to the machine plug



B. Turn the key (**1**) of the main switch to the "ON" position (clockwise). The battery charge level indicator lights will immediately come on.

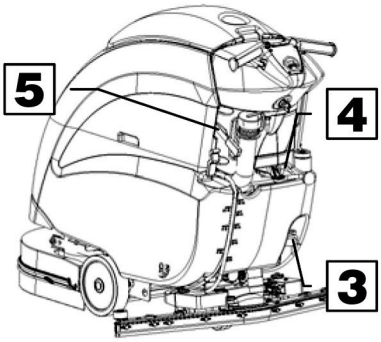
C. Turn on the solution control valve (**2**) (solution dispenses automatically while the brushes are turning).



D. Release the foot lever (**3**) and lower the brush deck. If the floor is particularly dirty, you can apply additional pressure to the brush deck by raising the foot lever (**3**) until the lock down is engaged.

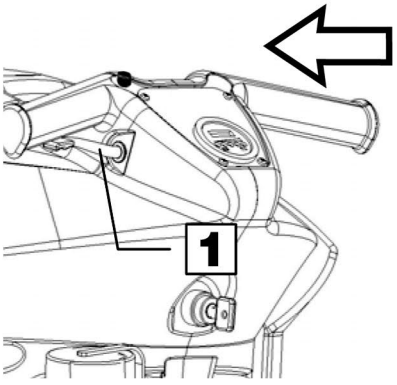
E. Lower the squeegee, turning the lever (**4**) counter clockwise. The vacuum motor will switch on.

F. Check that the brake (**5**) is released.



G. Pulling the switch levers (**1**), activates the brushes and the machine begins to move forward. During the first few feet, check that the amount of solution is correct, and that the squeegee dries the floor.

H. The machine will now start to scrub and dry until the solution tank is empty or recovery tank is full.

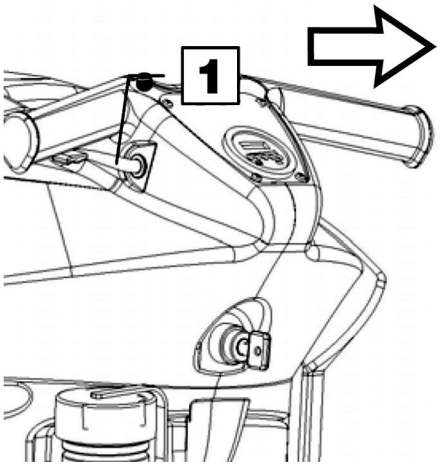


OPERATION

2. REVERSE MOVEMENTS

To move in the reverse direction, push the switch levers (**1**) forward.

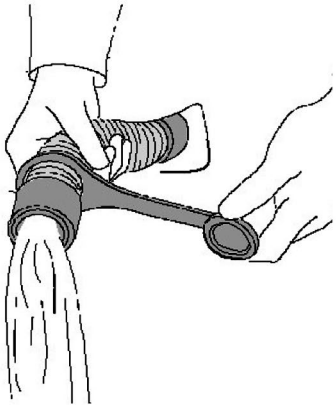
WARNING: When making reverse movements, raise the squeegee.



3. OVERFLOW DEVICE

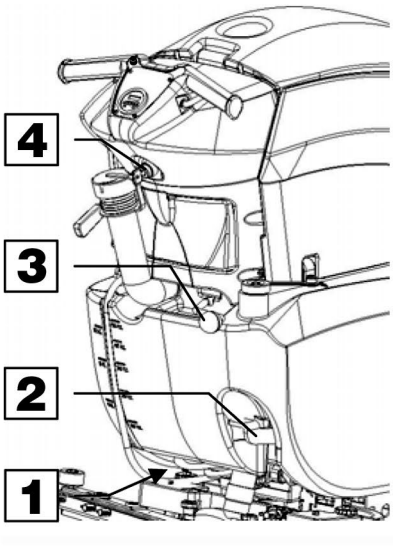
The machine has a float in the filter basket that activates when the recovery tank is full and stops airflow into the vacuum.
You must empty the recovery tank by removing the cap of the rear drain hose.

WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.



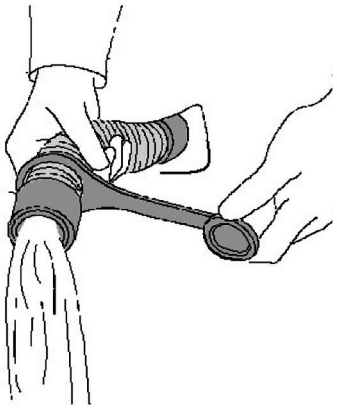
SHUTTING DOWN THE MACHINE

1. END OF WORK



When shutting down the machine and before you perform any type of maintenance:

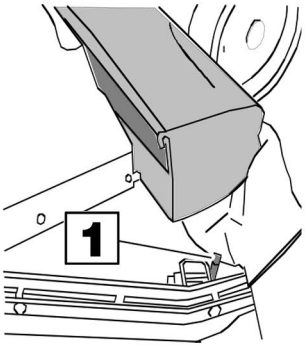
A. Turn off the solution control valve using the handle (**1**)
B. Raise the brush deck using the foot lever (**2**)
C. Raise the squeegee using the squeegee lift lever (**3**)
D. Turn off the key switch (**4**)
E. Move the machine where the tanks can be drained.



F. Remove the drain hose from its holder, unscrew the drain cap and empty the recovery tank.
G. The squeegee must be raised when the machine is not operating, to avoid deforming the squeegee blade blades.
H. Remove the pads and clean them with water.

WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.

2. EMPTYING THE DUST HOPPER



Empty the hopper after work and before performing any type of maintenance, to do so proceed as follows:

A. Push the knob (**1**) toward the rear of the machine and release the left side splash guard.
B. Remove the hopper, empty and clean it thoroughly.
C. Return the hopper.
D. Reassemble the side splash guard.
E. Raise the brush head at the end of work to avoid deforming the brushes.

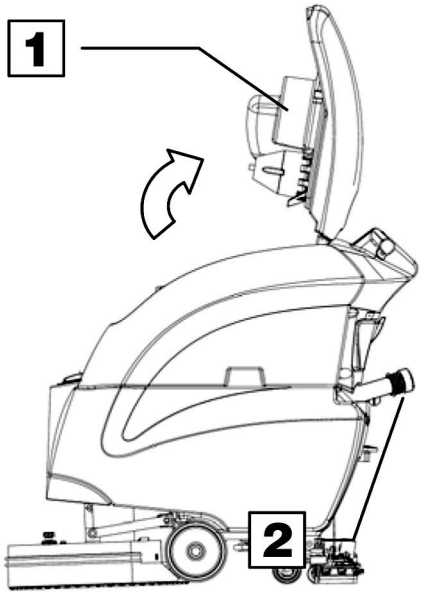
WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.

DAILY MAINTENANCE

1. CLEANING THE RECOVERY TANK

A. Raise the vacuum unit (**1**).
B. Remove the drain hose (**2**) and empty the tank.
C. Rinse the inside of the tank with water.
D. Close the vacuum unit on the machine and replace the drain hose cap and drain hose.

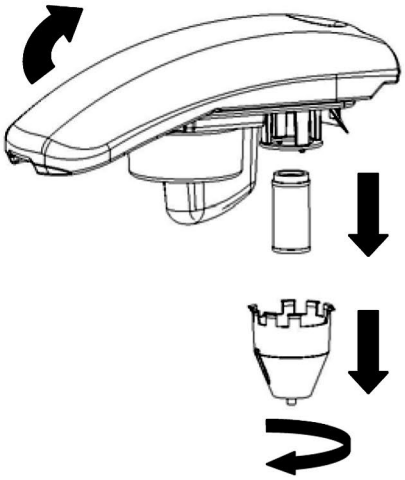
WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.



2. CLEANING THE VACUUM FILTER

A. Raise the vacuum unit.
B. Remove the vacuum filter cover by rotating it clockwise.
C. Pull the filter straight down from the lid to remove it.
D. Use water to clean the walls and base of the filter.
E. Reassemble all the components.

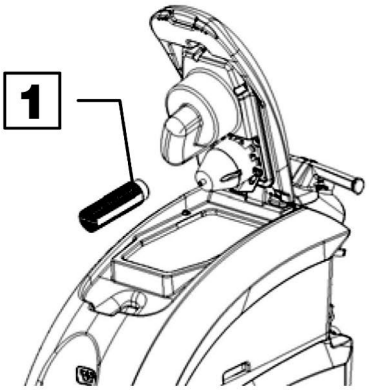
WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.



3. CLEANING THE VACUUM HOSE FILTER

A. Raise the vacuum unit.
B. Rotate the inner filter (**1**) and remove it.
C. Use water to clean the walls and base of the filter.
D. Reassemble all the components.

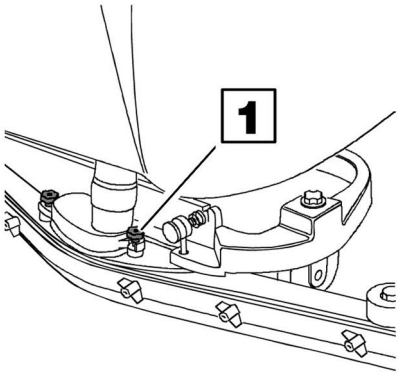
WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.



DAILY MAINTENANCE

4. CLEANING THE SQUEEGEE

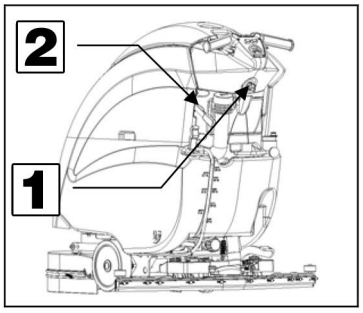
Ensure the squeegee is always clean, to improve drying results.



To clean:
A. Remove the squeegee vacuum hose from the squeegee shoe adapter.
B. Remove the cotter pins that attach the pins of the squeegee shoe.
C. Disassemble the squeegee from its support.
D. Loosen the wing nuts (**1**).
E. Remove the squeegee band clamp and squeegee blade.
F. Replace the squeegee blades.

To reassemble the squeegee, repeat the operations in the reverse order.

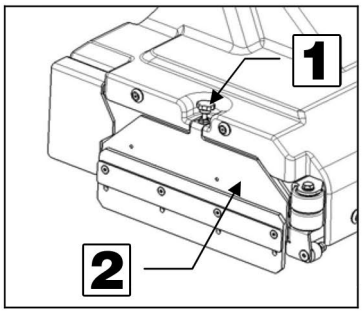
WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.



5. DISASSEMBLING THE BRUSH

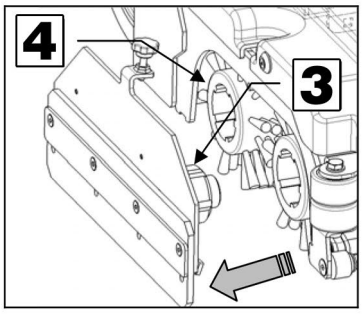
To remove the brushes:
1. Turn the key to position "0" (**1**).
2. Apply the parking break using the side lever (**2**).

ATTENTION: Before performing any maintenance, remove the keys from the panel and disconnect the batteries.



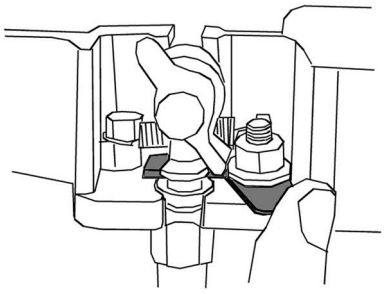
Clean the hopper as described in the "AT THE END OF WORK" paragraph.
3. Check that there is no debris preventing the brushes from spinning freely. If the brushes are not clean:
4. Loosen the thumb knob (**1**).
5. Remove the side plate (**2**) with the brush drive hubs (**3**).
6. Remove the brushes (**4**) and clean them with a jet of water. Check the bristles for excessive wear and replace if needed. The brushes should be replaced when the bristles are less than 0.5" long.
7. Reassemble all of the components.

WARNING: This operation must be carried out wearing protective gloves to protect against contact with dangerous solutions.



6. REPLACING THE SQUEEGEE BLADES

Check the state of wear of the squeegee blades and, if necessary, replace them.



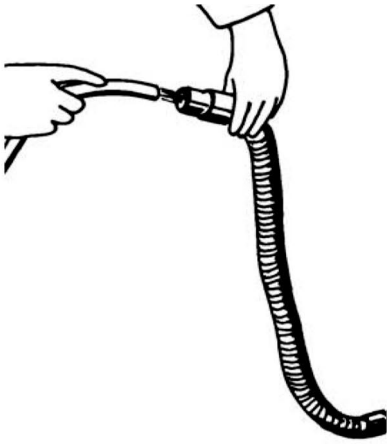
To replace:
A. Remove the squeegee hose from the squeegee shoe adapter.
B. Push the release lever and release the right hand stud.
C. Remove the squeegee vacuum from the squeegee yoke.
D. Loosen the wing nuts.
E. Remove the squeegee band clamp and squeegee blade.
F. Replace the squeegee blades.

To reassemble the squeegee, repeat the operations in the reverse order.

WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.

WEEKLY MAINTENANCE

1. CLEANING THE SQUEEGEE HOSE

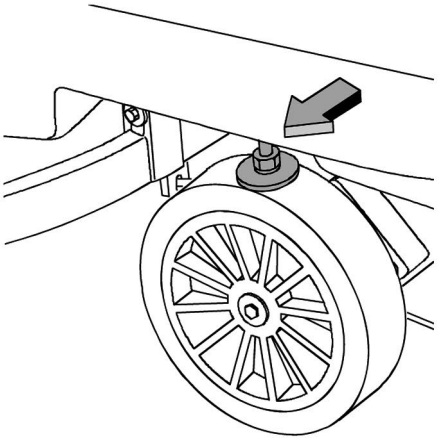


Every week, or whenever vacuum seems to be unsatisfactory, check the squeegee hose for obstructions. To clean:

A. Remove the hose from the squeegee shoe adapter on the squeegee shoe.
B. Remove the other end from the recovery tank.
C. Wash the inside of the hose with water from the end of the hose which is connected to the recovery tank.
D. Reassemble the hose.

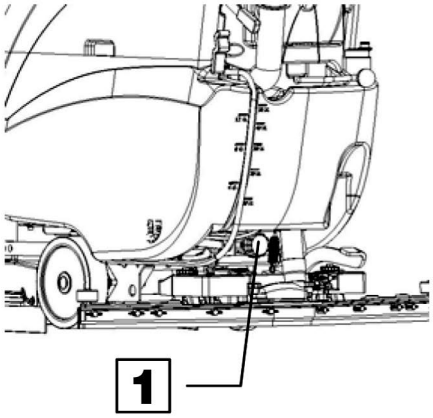
WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.

2. CHECKING THE BRAKE



Every week, check the distance between the brake pads and the wheels. If necessary, adjust them, so the pads are 0.12 inches away from the transport wheels at a distance of 0.12 in (3 mm) when released.

3. CLEANING THE SOLUTION TANK



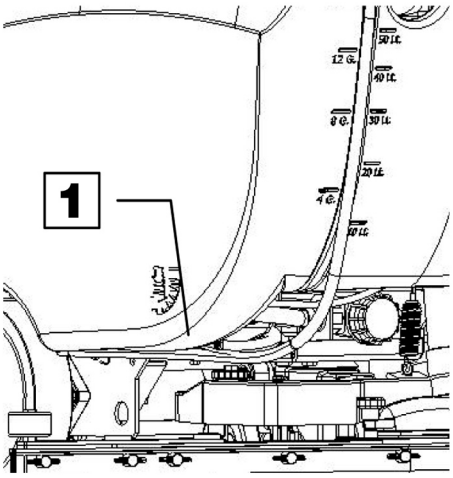
A. Loosen the solution tank cap.
B. Rinse with water.
C. Loosen the drain cap (**1**) located on the filter, and empty the tank.

WARNING: Always wear gloves when doing this operation to protect yourself from contact with hazardous chemicals.

TROUBLESHOOTING GUIDE

INSUFFICIENT WATER ON THE PAD

1. Verify that the solution control valve – located beneath the symbol – (**1**) is turned on.
2. Verify that there is water in the solution tank.



THE MACHINE DOES NOT CLEAN WELL

1. Check the state of wear of the scrubbing pad and, if necessary, replace it.
2. Use a different kind of scrubbing pad.

THE SQUEEGEE DOES NOT DRY THE FLOOR

1. Ensure that the squeegee blades are clean.
2. Adjust the inclination of the squeegee.
3. Ensure the vacuum hose is correctly installed.
4. Check the inner filter of the recovery tank to ensure it is not dirty and, if necessary, clean it thoroughly.
5. Disassemble the entire vacuum unit and clean it.
6. Replace the squeegee blades, if worn.
7. Ensure the vacuum motor is turned on.
8. Check squeegee wheel adjustment.

TOO MUCH FOAM IS GENERATED

Check that low-foam detergent is being used. If necessary add a small amount of defoamer liquid to the recovery tank. Remember that more foam is generated when the floors are not very dirty. Dilute the detergent more when cleaning floors that are not very dirty.

CHOOSING AND USING THE BRUSHES

POLYPROPYLENE BRUSH (PPL)

Used on all types of floors. Good resistance to wear and tear, and hot water (no greater than 140°F (60°C)).

NYLON BRUSH

Used on all types of floors. Excellent resistance to wear and tear and hot water (even over 140°F (60°C)).

ABRASIVE BRUSH

The bristles of this type of brush are coated with highly aggressive abrasives. It is used to clean very dirty floors. To avoid floor damage work only with the brush pressure necessary.

THICKNESS OF THE BRISTLES

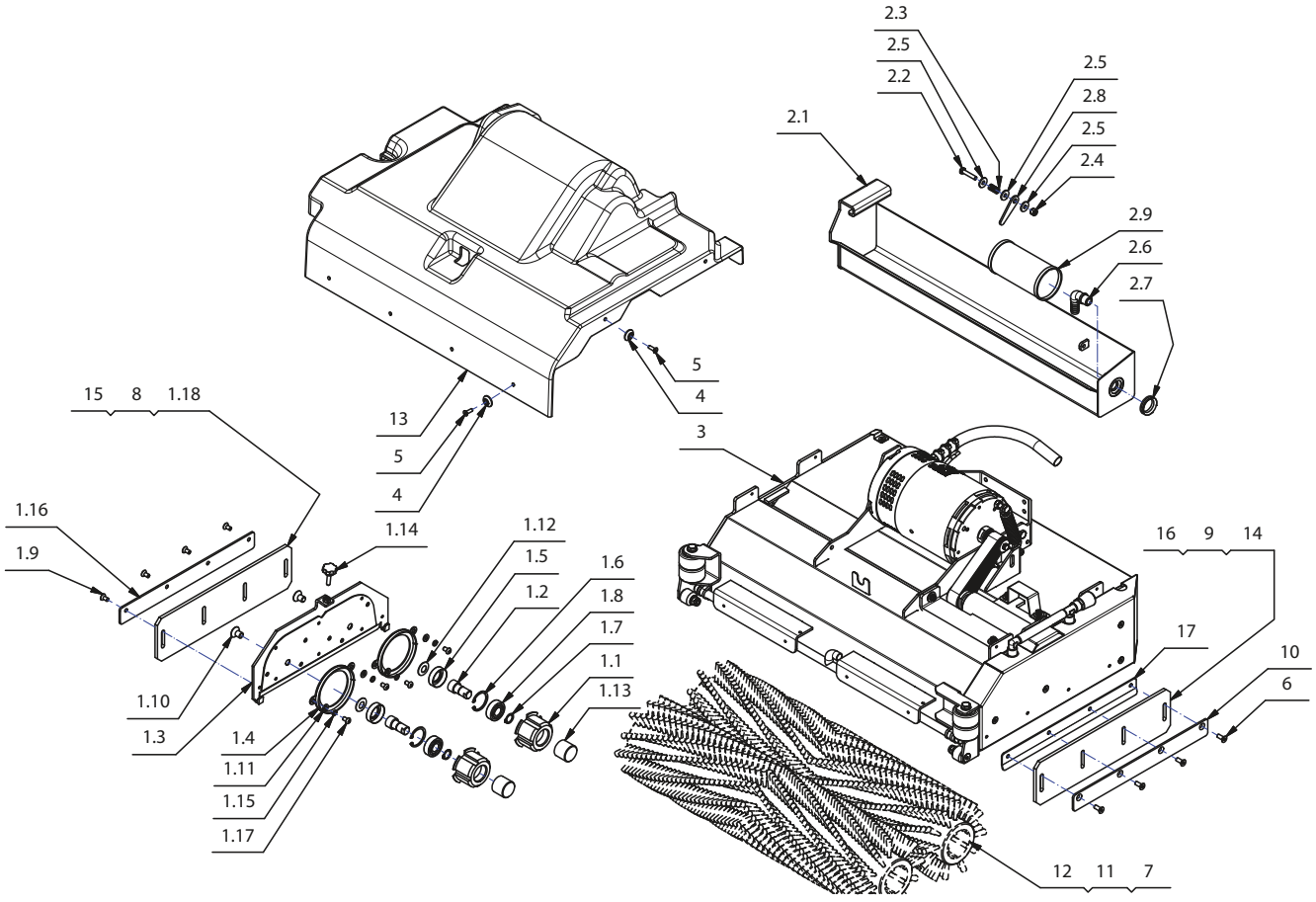
Thicker bristles are more rigid and are therefore used on smooth floors or floors with small joints. On uneven floors or those with deep joints, it is advisable to use softer bristles which can enter the gaps easier. When the bristles are worn and too short, they will become rigid and are no longer able to penetrate and clean deep down and the brushes tends to jump.

PAD DRIVER

Pad Holders and scrub pads are recommended for cleaning smooth surfaces. There are two types of pad holder:

1. The traditional pad holder has a series of anchor points that allow the abrasive floor pad to be held and dragged while working.
2. The CENTER LOCK type pad holder not only has anchor points, but also a snap-type central locking system made of plastic that allows the abrasive floor pad to be centered and held without any risk of it becoming detached. This type of pad driver is recommended above all for machines with more than one brush.

BRUSH DECK ASSEMBLY DIAGRAM

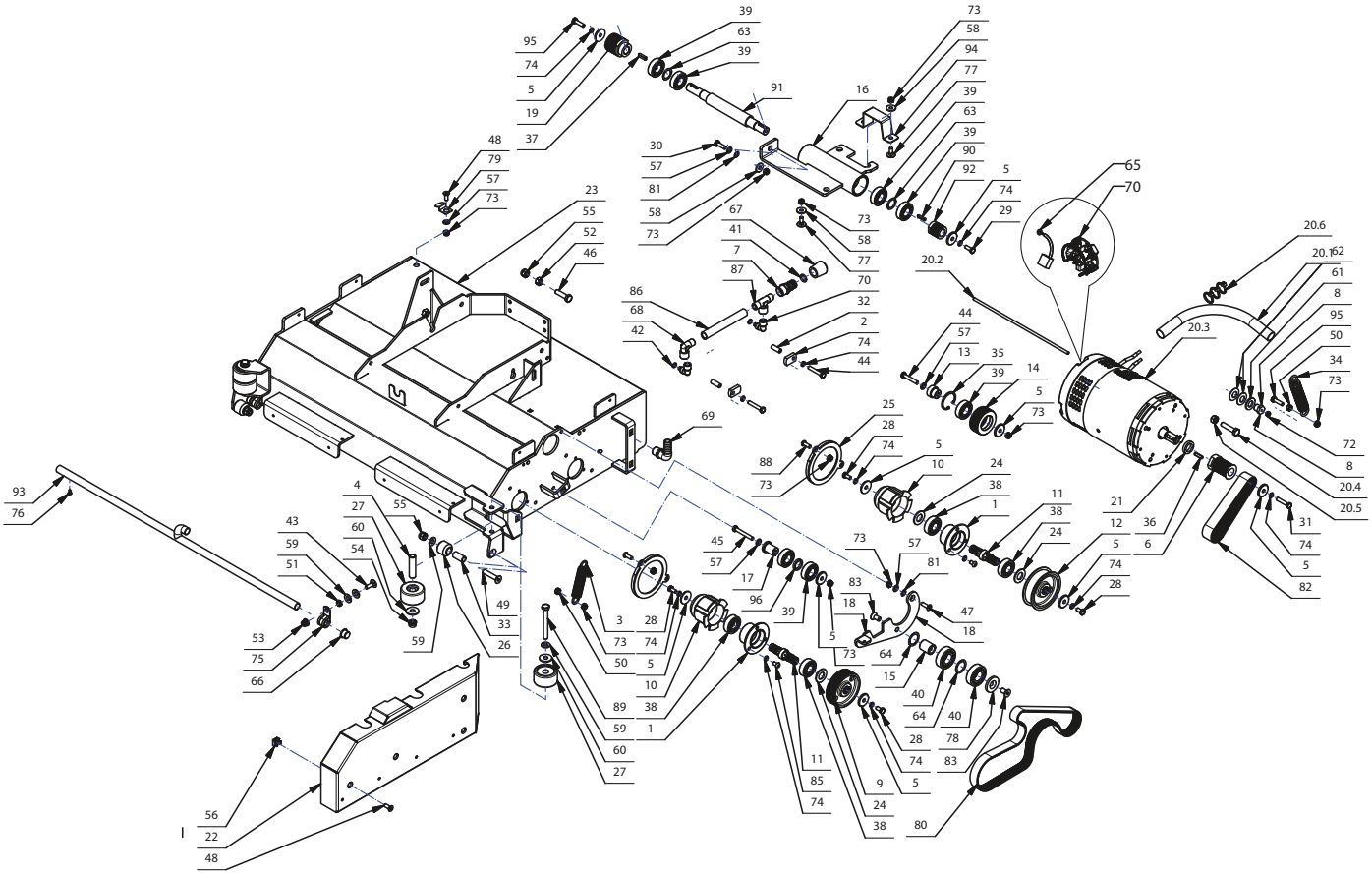


BRUSH DECK ASSEMBLY PARTS LISTING

Item#	Part #	Description	Qty.
1.1	E83434	Brush Hub	2
1.2	E83435	Pin / Shaft	2
1.3	E22197	Side Plate	1
1.4	E83580	Ring	2
1.5	E83439	Oil seal DRS/CRS	2
1.6	E83436	Seeger ring DRS/CRS	2
1.7	E83437	Retaining Ring - External	2
1.8	E22181	Bearing, 6202 2RS 15x35x11	2
1.9	E83835	Screw M6 x 12	4
1.1	E83441	Screw DRS/CRS	2
1.11	E81934	Flat Washer M6x12x1.6 SS	4
1.12	E22199	Cupped Washer	2
1.13	E83438	Cover DRS/CRS	2
1.14	E22500	Knob	1
1.15	E20323	Lock Washer M6 SS	4
1.16	E22501	Retaining Blade	1
1.17	E22502	Screw, M6 x 10	4
1.18	E22503	Side Squeegee, 30 SH Gum Rubber	1
2.1	E22505	Debris Hopper	1
2.2	E22506	Bolt, M6 x 30	1
2.3	E88024	Spring CM 70 HS	1

Item#	Part #	Description	Qty.
2.4	E22507	Nut, M6 x 8	1
2.5	E83799	Flat Washer M6.6x18x2 SS	3
2.6	E86275	Barbed Elbow, 3/8"	1
2.7	E81944	Grommet	1
2.8	E22508	Blade	1
2.9	E22509	Filter	1
3	E22510	Brush Base Assembly	1
4	E83850	Flat Washer M5x20 SS	8
5	E20290	Flat Hd Soc Machine Screw M5x16 SS	8
6	E22511	Flat Hd Soc Machine Screw M6x16	4
7	E22512	Brush, General Purpose, 0.4mm	2
8	E22513	Side Squeegee, 40 SH Gum Rubber	1
9	E22513	Side Squeegee, 40 SH Gum Rubber	1
10	E22201	Retaining Blade	1
11	E22516	Brush, Medium Duty, 0.6mm	2
12	E22517	Brush, Tynex Grit, 0.9mm	2
13	E22518	Base Cover	1
14	E22503	Side Squeegee, 30 SH Gum Rubber	1
15	E22520	Side Squeegee, 40 SH Poly	1
16	E22520	Side Squeegee, 40 SH Poly	1
17	E22522	Retaining Blade	1

BRUSH BASE ASSEMBLY DIAGRAM

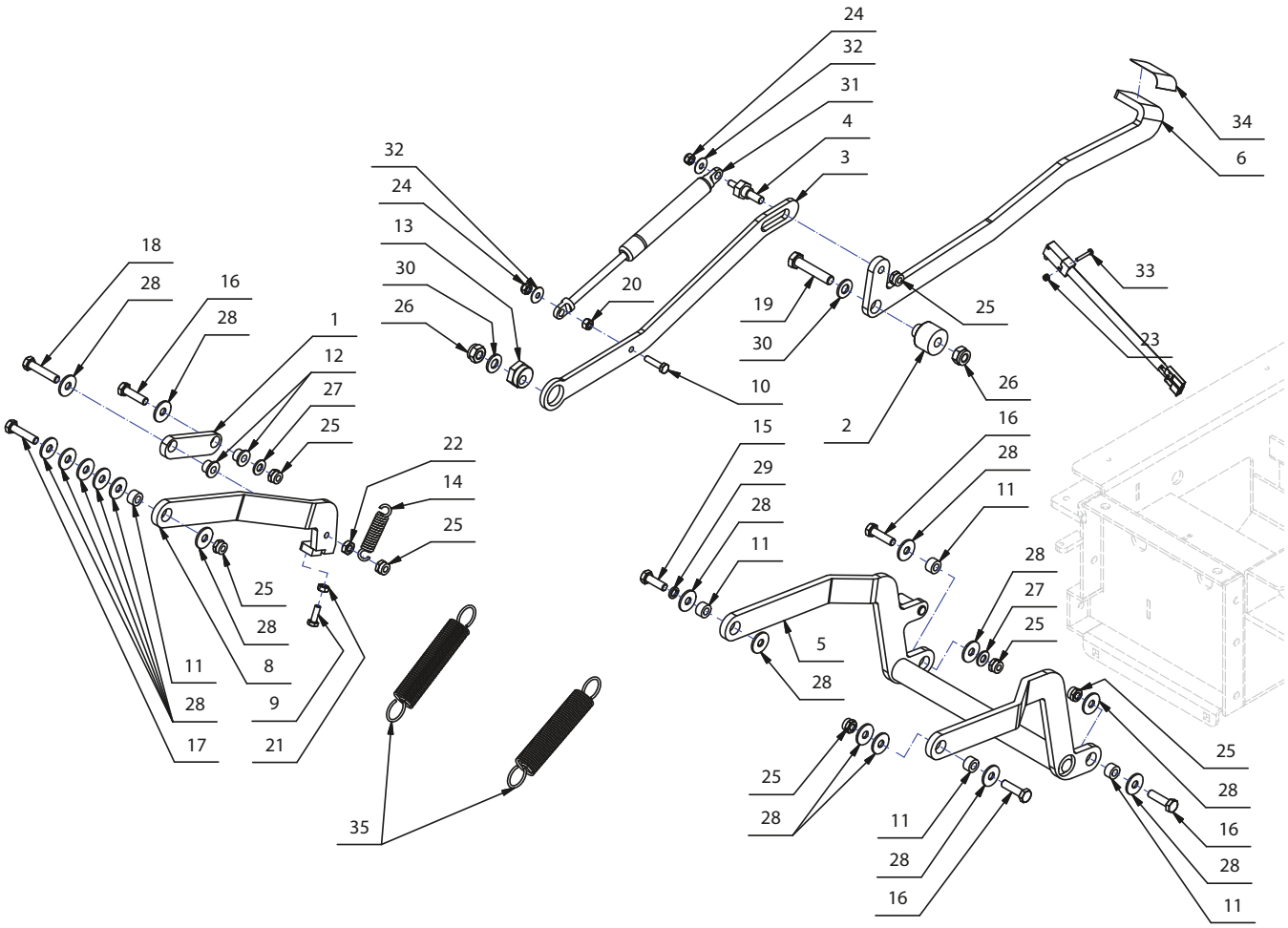


BRUSH BASE ASSEMBLY PARTS LISTING

Item#	Part #	Description	Qty.
1	E83274	Support	2
2	E22523	Stop	2
3	E81778	Spring	1
4	E82701	Tube	2
5	E83469	Washer	9
6	E22524	Pulley	1
7	E22525	Female Coupling	1
8	E20206	Bushing	2
9	E22526	Pulley	1
10	E22527	Hub	2
11	E22528	Shaft	2
12	E22529	Pulley	1
13	E22530	Pin	1
14	E22531	Pulley	1
15	E22532	Pin	1
16	E22533	Support	1
17	E22534	Pin	1
18	E22535	Support	1
19	E22536	Pulley	1
20.1	E22158	Sheath	1
20.2	E22538	Stud Bolt	1
20.3	E82738	Brush Motor 24VDC 560W	1
20.4	E83801	Hex Bolt M8x35 Zinc	1
20.5	E83656	Hex Nut, M8x6.5 Zinc	1
20.6	E83935	Wire Tie	3
21	E22539	Spacer	1
22	E22540	Cover	1
23	E22541	Brush Base	1
24	E83276	Washer	4
25	E83580	Ring	2
26	E83896	Wheel	2
27	E82451	Wheel 45 OD x 25 W	4
28	E83279	Screw	4
29	E20087	Hex Bolt M6x16 SS	1
30	E83914	Hex Bolt M6x20 SS	1
31	E22506	Screw	1
32	E82396	Spacer	2
33	E83524	Bushing	2
34	E22542	Spring	1
35	E83436	Seeger Ring	1
36	E82449	Key	1
37	E83700	Shaft Key 5x5x20mm	1
38	E22181	Bearing	4
39	E82764	Bearing Sweeper	7
40	E83923	Bearing, 6004 2RS	2
41	E22544	O-Ring	1
42	E89630	O-Ring	2
43	E20234	Carriage Bolt M6x20 SS	2
44	E22545	Screw	3
45	E22546	Screw	1
46	E83671	Hex Bolt M8x30 SS	2

Item#	Part #	Description	Qty.
47	E83831	Flat Hd Soc Machine Screw M6x20 SS	1
48	E22511	Flat Hd Soc Machine Screw M6x16	5
49	E22547	Screw	2
50	E83947	Hex Nut, M6x5 SS	2
51	E20113	Hex Jam Nut, M6X4 SS	2
52	E85499	Hex Nut, M8x6.5 SS	2
53	E20117	Nyloc Hex Jam Nut, M6x9 SS	2
54	E81342	Nyloc Hex Jam Nut, M8 SS	2
55	E20119	Nyloc Hex Nut, M8 SS	4
56	E22548	Cage Nut	4
57	E81934	Flat Washer M6x12x1.6 SS	5
58	E83799	Flat Washer M6.6x18x2 SS	4
59	E20125	Flat Washer M8x17x1.6 SS	8
60	E86164	Flat Washer M9x24x2.5 SS	4
61	E81751	Washer	2
62	E22199	Cupped Washer	4
63	E22549	Shim	2
64	E87289	Shim Washer M20x28x0.3	2
65	E82260	Carbon Brush	4
66	E20129	Cap	2
67	E22550	Rubber Cap	1
68	E22551	Elbow	1
69	E86275	Barbed Elbow, 3/8"	1
70	E22552	Elbow	2
71	E22553	Carbon Brush Holder	1
72	E20322	Hex Nut, M5 SS	1
73	E82314	Nyloc Hex Nut, M6 SS	14
74	E20323	Lock Washer M6 SS	15
75	E20299	Loop Clamp	2
76	E22554	Screw	1
77	E81896	Carriage Bolt M6x16 SS	3
78	E22555	Washer	1
79	E22556	Blade	1
80	E22557	Belt	1
81	E22558	Shim	2
82	E22559	Belt	1
83	E22560	Screw	2
84	E22561	Screw	1
85	E22502	Screw, M6 x 10	6
86	E22562	Hose	1
87	E22563	T-Fitting	1
88	E22564	Screw	4
89	E22565	Screw	2
90	E22566	Shaft Key 5x3x20mm	1
91	E22567	Shaft	1
92	E22568	Pulley	1
93	E22569	Tube	1
94	E22570	Mounting Bracket	1
95	E22571	Screw	2
96	E22572	Spacer	1

DECK LIFT ASSEMBLY DIAGRAM

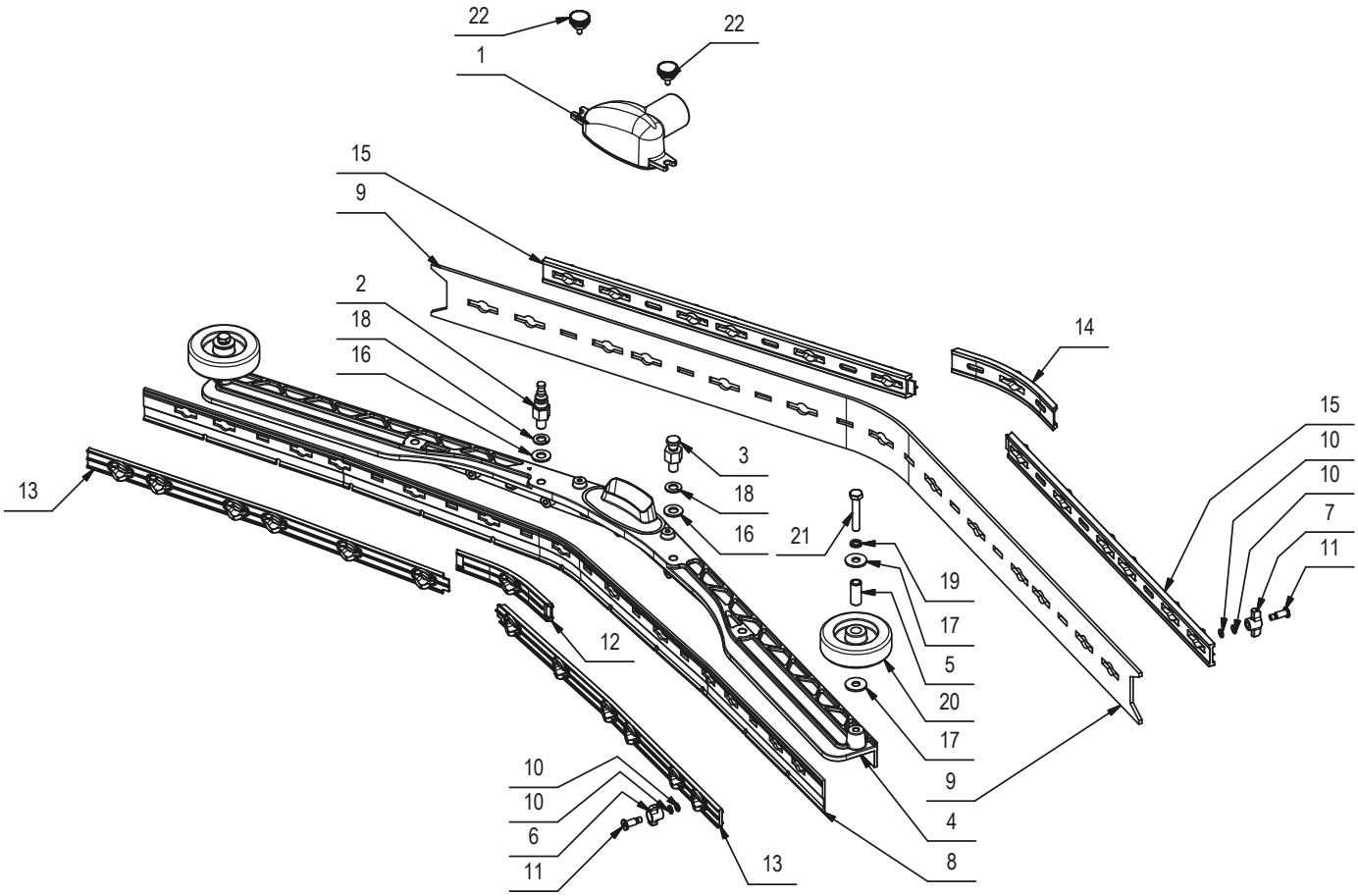


DECK LIFT ASSEMBLY PARTS LISTING

Item#	Part #	Description	Qty.
1	E20220	Brush Deck Lift Arm Linkage	1
2	E22573	Bushing	1
3	E22574	Lever	1
4	E22575	Spacer	1
5	E22576	Arm	1
6	E22577	Lever	1
7	E88279	Micro Switch Sealed	1
8	E22578	Arm	1
9	E20088	Hex Bolt M6x18 Zinc	1
10	E20090	Hex Bolt M6x25 Zinc	1
11	E83932	Bushing	5
12	E82285	Bushing	2
13	E22579	Bushing	1
14	E22580	Spring	1
15	E83833	Hex Bolt M8x25 Zinc	1
16	E83802	Hex Bolt M8x30 Zinc	4
17	E83801	Hex Bolt M8x35 Zinc	1
18	E83830	Hex Bolt M8x40 Zinc	1

Item#	Part #	Description	Qty.
19	E22289	Hex Bolt M10x50 Zinc	1
20	E20112	Hex Nut, M6x6 Zinc	1
21	E83852	Hex Nut, M6x5	1
22	E82808	Hex Jam Nut, M8X5 Zinc	1
23	E81673	Hex Nyloc Nut, M3 Zinc	2
24	E83550	NyLoc Hex Nut, M6 Zinc	2
25	E86853	Nyloc Hex Nut, M8 Zinc	7
26	E83381	Nyloc Hex Nut, M10 Zinc	2
27	E81874	Flat Washer M8x17x1.6 Zinc	3
28	E83404	Flat Washer M9x24x2.5 Zinc	17
29	E83704	Lock Washer M8x13x2.2 Zinc	1
30	E82773	FI1241-Flat Washer M10x21x2 Zinc	2
31	E88782	Gas Shock Absorber	1
32	E22581	Spring	2
33	E20533	Hex Bolt M3x20 SS	2
34	E20635	Abrasive Antislip Tape	1
35	E22582	Spring	2

SQUEEGEE ASSEMBLY DIAGRAM

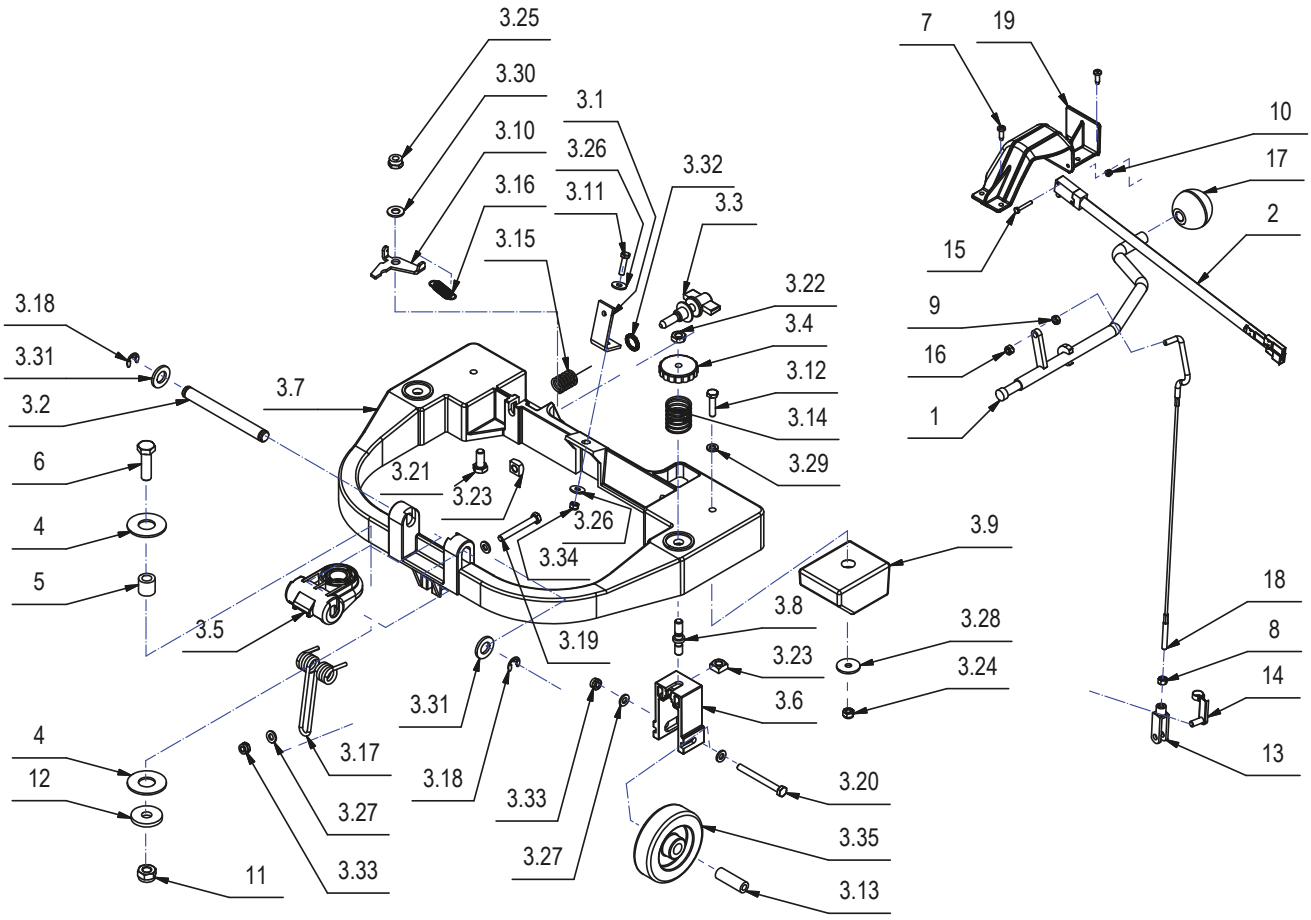


SQUEEGEE ASSEMBLY PARTS LISTING

Item#	Part #	Description	Qty.
1	E89559	Squeegee Vacuum Adapter (H)	1
2	E82275	Pin, Adjustable Mounting M10 Zinc	1
3	E82280	Pin, Fixed Mounting M10 Zinc	1
4	E22351	Squeegee Body 42.5 Inch ASM	1
5	E88442	Bushing, Steel, 12mm OD, 8mm ID, 28mm L	2
6	E22358	Wing Nut Knob	13
7	E22359	Wing Nut Knob	13
8	E88953	Squeegee Blade Kit, 42.75"	1
9	E88953	Squeegee Blade Kit, 42.75"	1
10	E22385	O-Ring 7mm	52
11	E22346	Custom Cap Screw	26

Item#	Part #	Description	Qty.
12	E22352	Center Front Squeegee Blade Clamp	1
13	E22354	Outer Front Squeegee Blade Clamp	2
14	E22355	Center Rear Squeegee Blade Clamp	1
15	E22357	Outer Rear Squeegee Blade Clamp	2
16	E86255	Flat Washer M10x21x2 SS	2
17	E86164	Flat Washer M9x24x2.5 SS	4
18	E20128	Lock Washer M10 SS	2
19	E20252	Lock Washer M8x13x2.2 SS	2
20	E88280	Wheel 80 OD x 23 W	2
21	E20287	Hex Bolt M8x45 SS	2
22	E22630	Thumb Screw	2

SQUEEGEE SUPPORT ASSEMBLY DIAGRAM

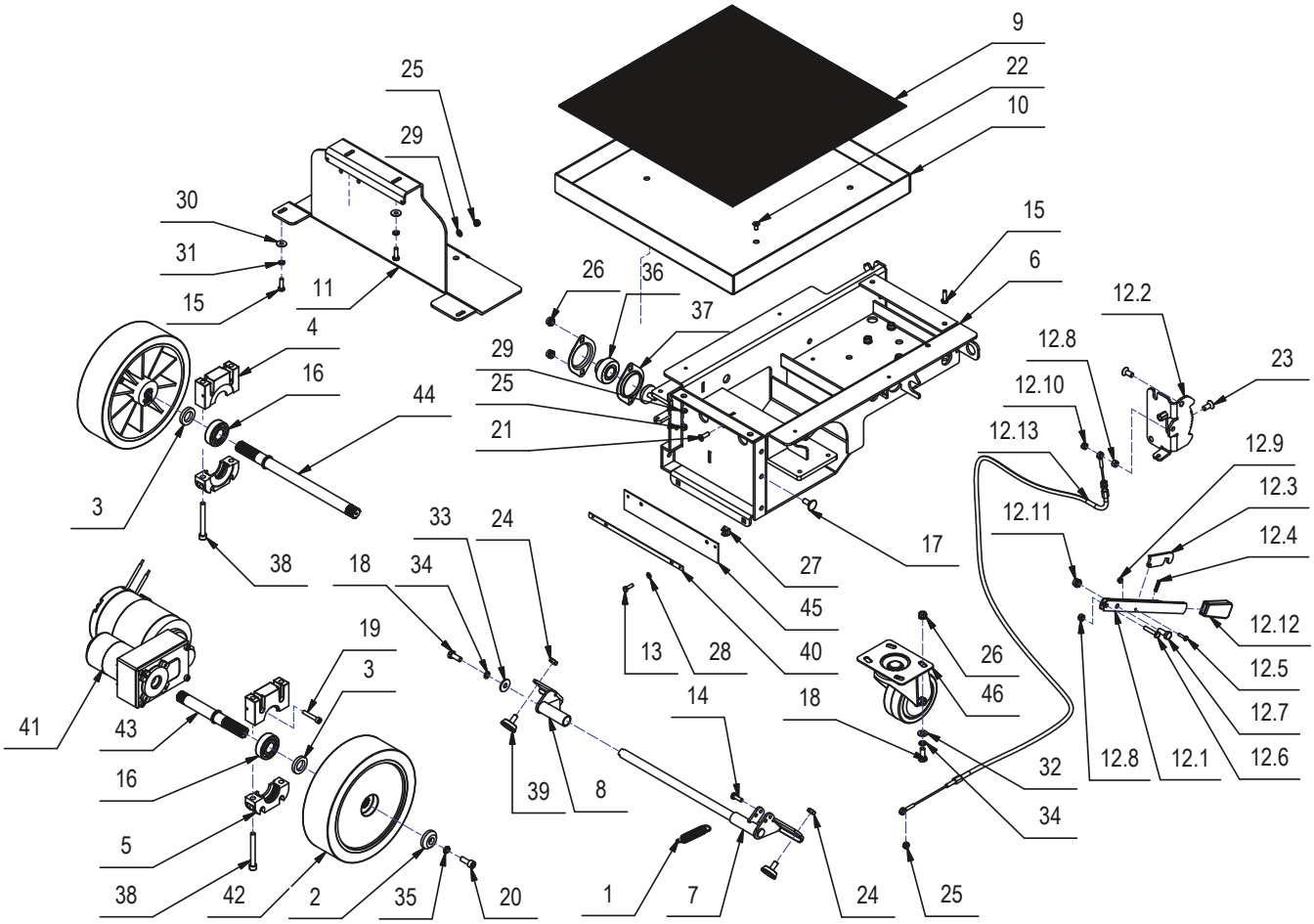


SQUEEGEE SUPPORT ASSEMBLY PARTS LISTING

Item#	Part #	Description	Qty.
1	E20313	Squeegee Lift Lever	1
2	E88279	Micro Switch Sealed	1
3.1	E22583	Support	1
3.2	E20010	Pivot Pin	1
3.3	E82265	Knob, Squeegee Pitch Adjustment	1
3.4	E83331	Knob, M8 Round Nylon Female	2
3.5	E85776	Pivot Connector	1
3.6	E20078	Squeegee Wheel Support	2
3.7	E81880	Squeegee Yoke	1
3.8	E20079	Threaded Adjuster Rod	2
3.9	E20080	Ballast	2
3.1	E86252	Latch, Squeegee Connector	1
3.11	E83881	Hex Bolt M5x20 Zinc	1
3.12	E20090	Hex Bolt M6x25 Zinc	2
3.13	E82274	Bushing	2
3.14	E20091	Spring	2
3.15	E82703	Spring, 16.6x2x23mm Compression	1
3.16	E82453	Spring, 10x1.1x38 SS Extension	1
3.17	E86158	Spring, 86mm Torsion Custom	1
3.18	E85498	E Style Circlip	2
3.19	E86159	Hex Bolt M6x50 Zinc	1
3.2	E83866	Hex Bolt M6x60 SS	2
3.21	E20098	Hex Bolt M8x18 Zinc	1
3.22	E83672	Hex Jam Nut, M8x5 SS	2
3.23	E83824	Square Nut, M8 SS	3
3.24	E83550	NyLoc Hex Nut, M6 Zinc	2
3.25	E86853	Nyloc Hex Nut, M8 Zinc	1

Item#	Part #	Description	Qty.
3.26	E20121	Flat Washer M5x15x1.5 Zinc	2
3.27	E82761	Flat Washer M6x12x1.6 Zinc	6
3.28	E83278	Flat Washer M6.5x24x2 Zinc	2
3.29	E82774	Lock Washer, M6 Zinc	2
3.3	E20125	Flat Washer M8x17x1.6 SS	1
3.31	E85722	Flat Washer M13x24x2.5 Zinc	2
3.32	E81406	External Serrated Lock Washer M13x18 Zinc	1
3.33	E82314	Nyloc Hex Nut, M6 SS	3
3.34	E20382	Nyloc Hex Nut, M5 x 5 Zinc	1
3.35	E88280	Wheel 80 OD x 23 W	2
4	E20337	Flat Washer M17x40x2 Delrin	2
5	E20231	Bushing	1
6	E82455	Hex Bolt M10x35 Zinc	1
7	E83838	Screw, Flat Hd M4x15 Zinc	4
8	E83535	Hex Nut, M5x5 Zinc	1
9	E82317	Hex Jam Nut, M5X3.5 Zinc	1
10	E81673	Hex Nyloc Nut, M3 Zinc	2
11	E83381	Nyloc Hex Nut, M10 Zinc	1
12	E20295	Flat Washer M10.5x32x4Zinc	1
13	E83538	Fork WS17	1
14	E83542	Clip WS17	1
15	E20533	Hex Bolt M3x20 SS	2
16	E20382	Nyloc Hex Nut, M5 x 5 Zinc	1
17	E20638	Knob	1
18	E88250	Squeegee Lift Cable	1
19	E20641	Bracket	1

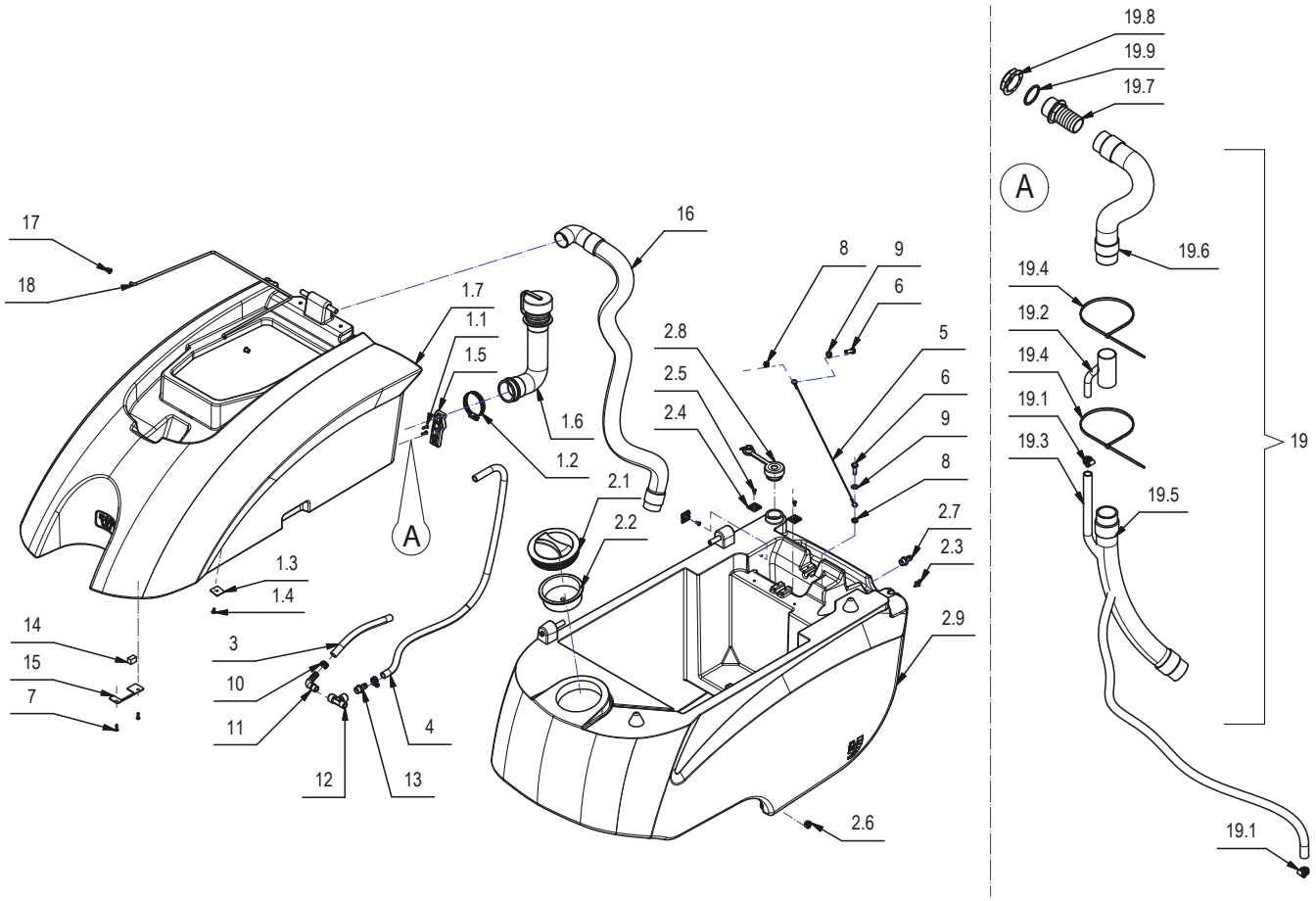
FRAME ASSEMBLY DIAGRAM



FRAME ASSEMBLY PARTS LISTING

Item#	Part #	Description	Qty.
1	E82689	Spring, 15x2x60mm Galv Extension	1
2	E82395	Washer	2
3	E22584	Spacer	2
4	E20609	Bearing Mount Base	2
5	E20014	Bearing Mount Cap	2
6	E22585	Frame	1
7	E22586	Rocker Arm, Left	1
8	E22587	Rocker Arm, Right	1
9	E22588	Pad	1
10	E22537	Battery Tray	1
11	E22590	Support	1
12	E20518	Brake Lever ASM	1
12.1	E20595	Brake Lever	1
12.2	E20522	Brake Lever Bracket	1
12.3	E81928	Latch Lock	1
12.4	E82255	Spring 4.7x0.5x20mm Compression	1
12.5	E20341	Hex Bolt M4x16 Zinc	1
12.6	E83974	Hex Bolt M6x30 Zinc	1
12.7	E81917	Bolt, Hex, M8x20, Zinc	1
12.8	E20112	Hex Nut, M6x6 Zinc	2
12.9	E22591	Lock Nut, M4 x 6	1
12.10	E83550	NyLoc Hex Nut, M6 Zinc	1
12.11	E86853	Nyloc Hex Nut, M8 Zinc	1
12.12	E88376	Knob Hole 5 x 20	1
12.13	E20537	Brake Cable	1
13	E20084	Hex Bolt M5x16 SS	2
14	E20088	Hex Bolt M6x18 Zinc	1
15	E82772	Hex Bolt M6x20 Zinc	6
16	E81657	Bearing, 6204 2RS	2
17	E88239	Screw	2
18	E81917	Bolt, Hex, M8x20, Zinc	5
19	E22592	Screw, M6 x 35	4
20	E20390	Soc Hd Cap Screw M8x22 Zinc	2
21	E20111	Flat Hd Soc Machine Screw M6x20 Zinc	3
22	E83835	Screw M6 x 12	4
23	E20247	Flat Hd Soc Machine Screw M8x18 Zinc	2
24	E82808	Hex Jam Nut, M8X5 Zinc	2
25	E83550	NyLoc Hex Nut, M6 Zinc	4
26	E86853	Nyloc Hex Nut, M8 Zinc	6
27	E20250	Cage Nut M5	2
28	E81618	Flat Washer M5x10x1 SS	2
29	E82761	Flat Washer M6x12x1.6 Zinc	3
30	E82798	Flat Washer, M6x18x1.5 Zinc	6
31	E82774	Lock Washer, M6 Zinc	6
32	E81874	Flat Washer M8x17x1.6 Zinc	4
33	E83404	Flat Washer M9x24x2.5 Zinc	1
34	E83704	Lock Washer M8x13x2.2 Zinc	5
35	E82760	Washer, M8	2
36	E22593	Bearing	1
37	E22594	Flange	2
38	E22322	Soc Hd Cap Screw M8x70 Zinc	4
39	E20175	Brake Pad M8x17	2
40	E20176	Band Clamp	1
41	E22595	Traction Motor, 250W	1
42	E22596	Wheel	2
43	E22597	Axle Shaft, Left	1
44	E22598	Axle Shaft, Right	1
45	E22599	Splash Guard	1
46	E22600	Caster Wheel	1

TANK ASSEMBLY DIAGRAM

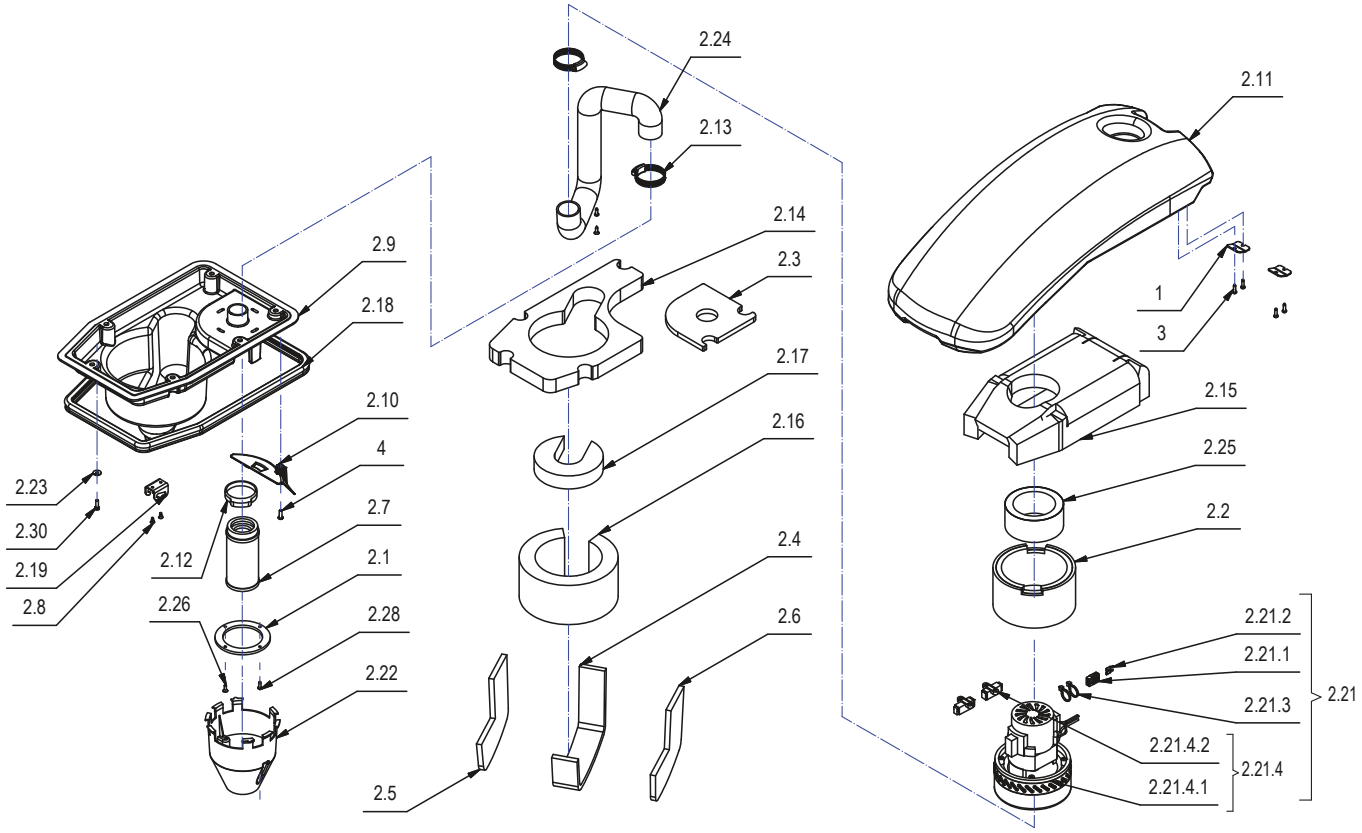


TANK ASSEMBLY PARTS LISTING

Item#	Part #	Description	Qty.
1.1	E20107	Screw, Pan Hd Phil Self Tap M4.2x16 SS	2
1.2	E20432	Hose Clamp	1
1.3	E81619	Cable Tie Holder	1
1.4	E20468	Flat Hd Phil Machine Screw M5x12 Zinc	1
1.5	E12633	Latch & Hook ASM	1
1.6	E88286	Hose, Drain	1
1.7	E22601	Recovery Tank	1
2.1	E82429	Cap	1
2.2	E82612	Filter	1
2.3	E20107	Screw, Pan Hd Phil Self Tap M4.2x16 SS	2
2.4	E81619	Cable Tie Holder	3
2.5	E20468	Flat Hd Phil Machine Screw M5x12 Zinc	3
2.6	E20627	Plug, 3/8" Male	1
2.7	E82269	Barbed Fitting, 3/8 in.	1
2.8	E20185	Cap	1
2.9	E22602	Solution Tank	1
3	E22603	Solution Hose	1
4	E22604	Solution Hose	1
5	E22605	Cable	1
6	E83833	Hex Bolt M8x25 Zinc	2
7	E20107	Screw, Pan Hd Phil Self Tap M4.2x16 SS	4

Item#	Part #	Description	Qty.
8	E82808	Hex Jam Nut, M8X5 Zinc	2
9	E20127	Flat Washer M9x18x1.5 Zinc	2
10	E85762	Hose Clamp	2
11	E86275	Barbed Elbow, 3/8"	1
12	E20651	Tee Fitting	1
13	E82269	Barbed Fitting, 3/8 in.	1
14	E20190	Spacer Block	2
15	E22606	Plate	2
17	E22074	Plug, Vac Lid Bale	2
18	E22072	Bale, Vac Lid	1
19	E22608	Vacuum Hose Assembly	1
19.1	E85762	Hose Clamp	2
19.2	E22609	Flange	1
19.3	E82606	Hose	1
19.4	E83920	Clamp 9x300 4,8x360 black	2
19.5	E82478	Hose, Vacuum Media	1
19.6	E88499	Hose, Vacuum	1
19.7	E85763	Connector	1
19.8	E22610	Ring Nut	1
19.9	E82341	Gasket	1

VACUUM LID ASSEMBLY DIAGRAM

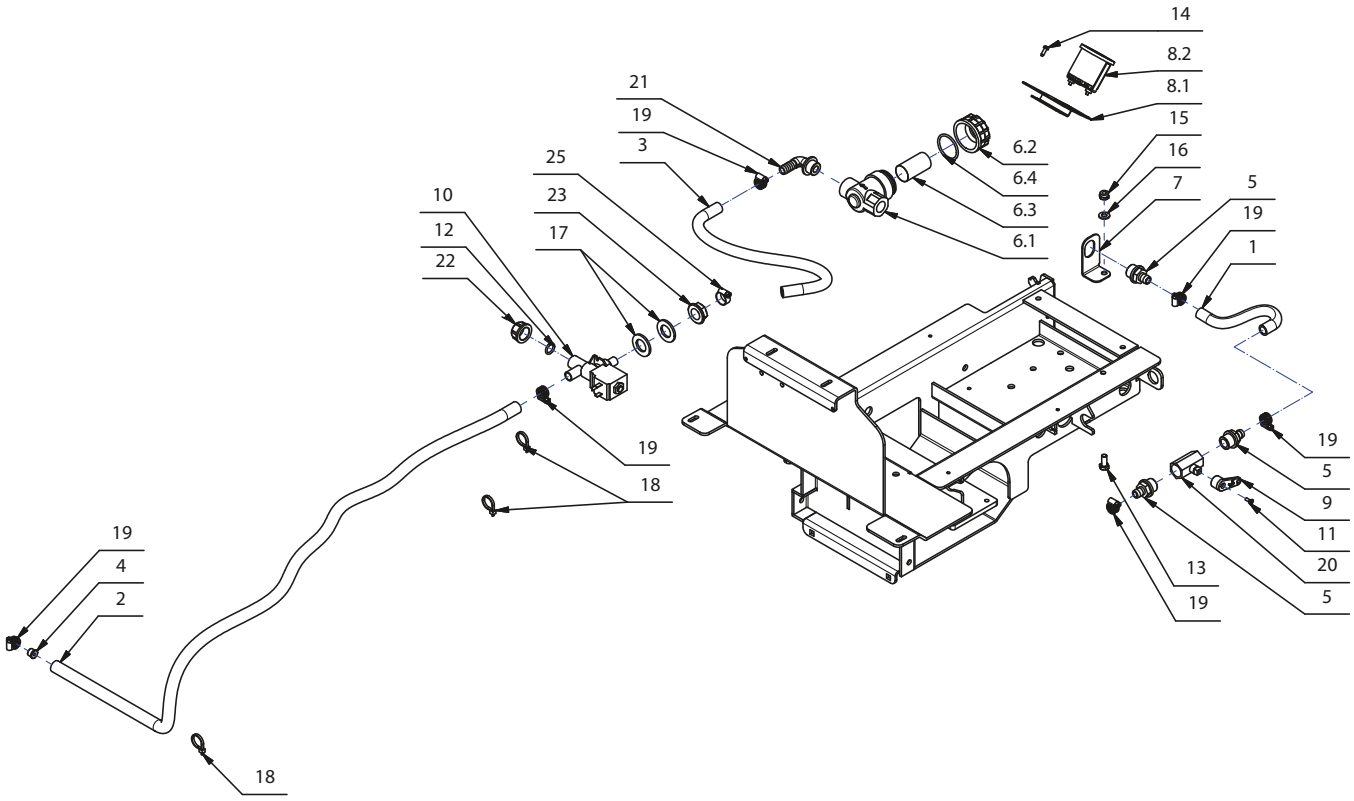


VACUUM LID ASSEMBLY PARTS LISTING

Item#	Part #	Description	Qty.
1	E20265	Plate	2
2.1	E20305	Mounting Ring	1
2.2	E20652	Sound Deadening Foam	1
2.3	E20180	Sound Deadening Foam	1
2.4	E20179	Sound Deadening Foam	1
2.5	E20178	Sound Deadening Foam	1
2.6	E20266	Sound Deadening Foam	1
2.7	E88292	Filter, Cage	1
2.8	E22076	Screw, M4 x 10	2
2.9	E20384	Vacuum Motor Cover	1
2.1	E20191	Deflector	1
2.11	E20199	Recovery Tank Cover	1
2.12	E81710	Hose Clamp	1
2.13	E82695	Clamp 44-56x12.2	2
2.14	E20181	Sound Deadening Foam	1
2.15	E20184	Sound Deadening Foam	1
2.16	E20183	Sound Deadening Foam	1

Item#	Part #	Description	Qty.
2.17	E20182	Sound Deadening Foam	1
2.18	E22519	Gasket	1
2.19	E22075	Hook, Vac Lid Bale	1
2.21	E88291	Vacuum Motor 24VDC 310W	1
2.21.1	E83897	Connector, Electrical Housing 30A	2
2.21.2	E83883	Lug, Electrical 30A	2
2.21.3	E83935	Wire Tie	2
2.21.4.2	E22624	Carbon Brush - Vacuum Motor	2
2.22	E81006	Vacuum Splash Guard	1
2.23	E20122	Flat Washer M5 x 15 x 1.5 SS	5
2.24	E88290	Hose, Vacuum 1-1/2" x 22-1/4"	1
2.25	E20440	Sound Deadening Foam	1
2.26	E22381	Screw, Pan Hd Phil Self Tap M4.2x16 SS	2
2.28	E20106	Screw, Pan Hd Phil Self Tap M4.2x13 SS	2
2.3	E20084	Hex Bolt M5x16 SS	5
3	E22382	Screw, Pan Hd Phil Self Tap M4.2x16 SS	4
4	E20298	Soc Button Head Screw M5x16 SS	1

SOLUTION ASSEMBLY DIAGRAM

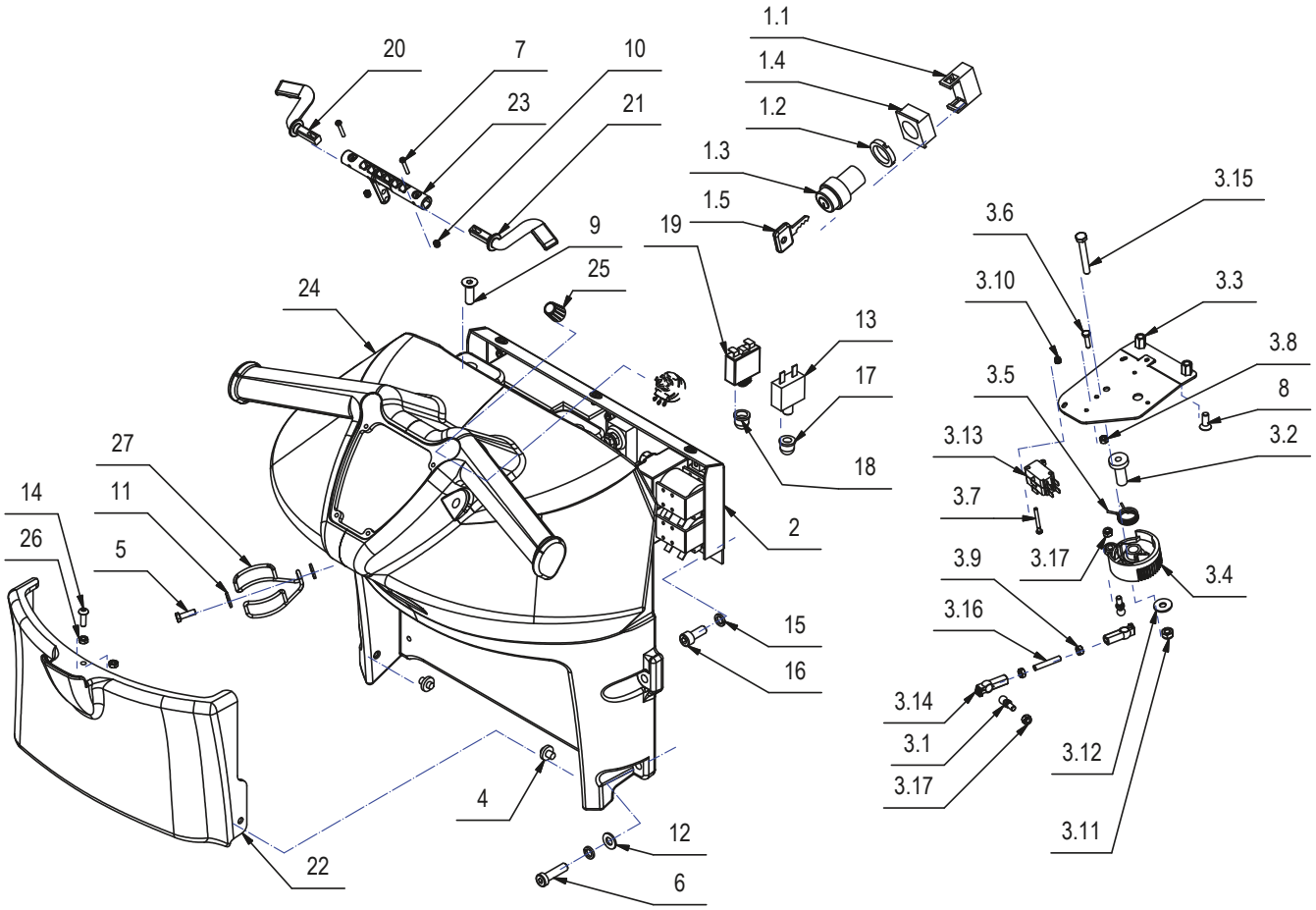


SOLUTION ASSEMBLY PARTS LISTING

Item#	Part #	Description	Qty.
1	E20004	Tubing 12 ID x 200 L	1
2	E81348	Hose	1
3	E82693	Hose, 17 OD x 12 ID x L 420	1
4	E22612	Spacer	1
5	E82447	Fitting, 1/2" NPT & 1/2"" Barbed Nylon	3
6	E88207	Filter Assembly, Inline Double Female 1/2" NPT	1
6.1	E20512	Filter, Body	1
6.2	E20144	Cap	1
6.3	E88218	Filter Cartridge	1
6.4	E20145	O-Ring	1
7	E20457	Bracket	1
8	E20463	Instrument Panel ASM	1
8.1	E20332	Panel	1
8.2	E88293	Battery Check Card, Hour Meter	1
9	E82705	Valve Lever	1

Item#	Part #	Description	Qty.
10	E82322	Solenoid Valve, 24v 10w 3-Port Nylon	1
11	E83858	Oval Hd SL Machine Screw M4x12 SS	1
12	E83617	O-Ring, 14x2.5mm Buna-N	1
13	E20098	Hex Bolt M8x18 Zinc	1
14	E83838	Screw, Flat Hd M4x15 Zinc	4
15	E86853	Nyloc Hex Nut, M8 Zinc	1
16	E81874	Flat Washer M8x17x1.6 Zinc	1
17	E20253	Flat Washer M21x60x3 Nylon	2
18	E22611	Hose Clamp	3
19	E85762	Hose Clamp	6
20	E82366	Valve	1
21	E81446	Fitting, 1/2" NPT & 1/2" Barbed Nylon Elbow	1
22	E83882	Cap, 1/2" NPT	1
23	E20433	Ring Nut 1/2"	1
25	E83499	Hose Clamp	1

HANDLEBAR ASSEMBLY DIAGRAM

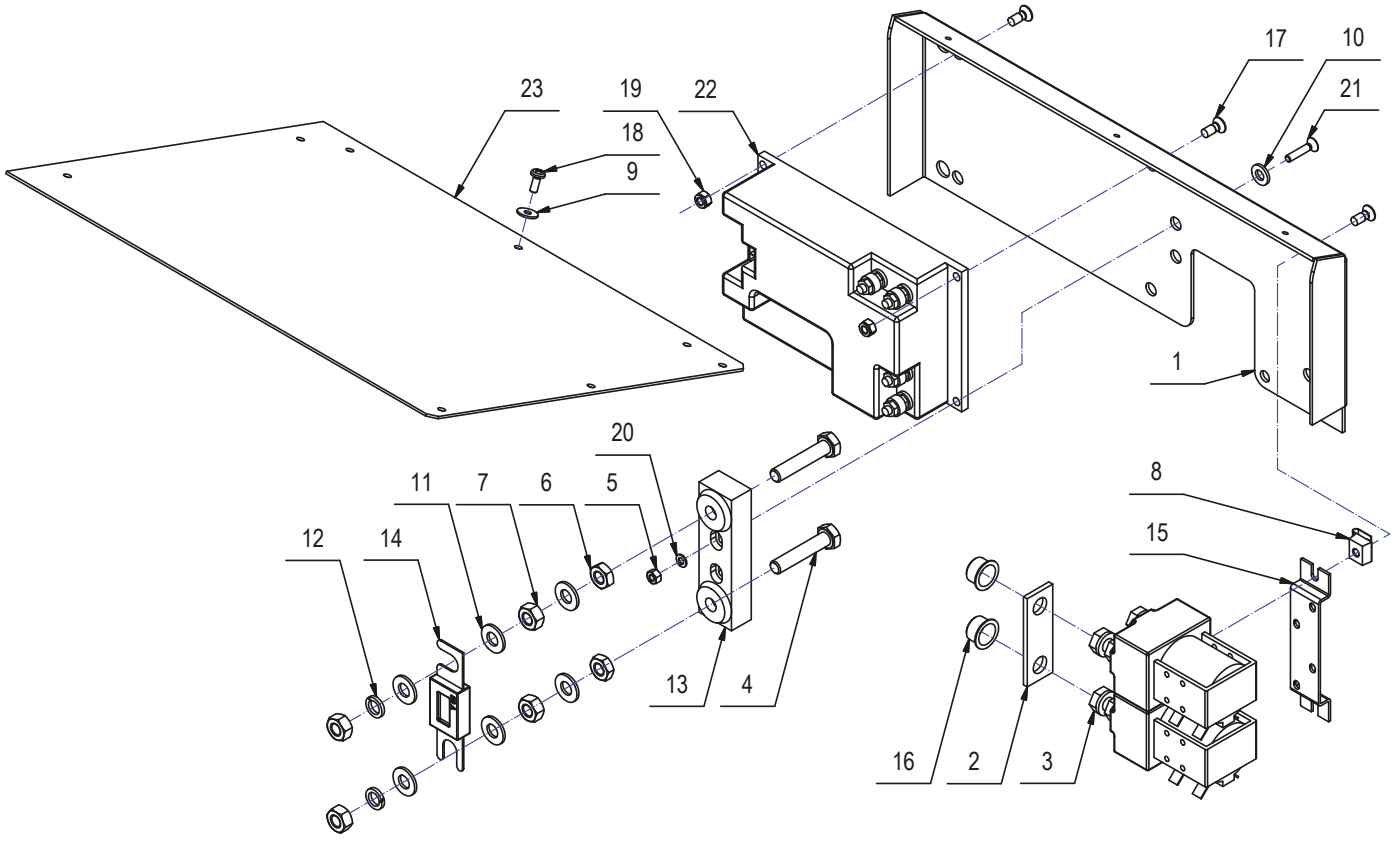


HANDLEBAR ASSEMBLY PARTS LISTING

Item#	Part #	Description	Qty.
1	E82351	Key Switch Assembly w/Keys	1
1.1	E83173	Contact, Key Switch	1
1.2	E83316	Key Switch	1
1.3	E83316	Key Switch	1
1.4	E81358	Switch Flange	1
1.5	E83315	Switch Key (1)	1
2	E22613	Electrical Control Panel Assembly	1
3.1	E20330	Ball Stud M10x22.5	2
3.2	E20574	Bushing	1
3.3	E20556	Plate	1
3.4	E81763	Cam	1
3.5	E88204	Spring	1
3.6	E20341	Hex Bolt M4x16 Zinc	1
3.7	E20243	Pan Hd Phil Machine Screw M3x30 Zinc	4
3.8	E20248	Hex Nut, M4x4 Zinc	1
3.9	E82317	Hex Jam Nut, M5X3.5 Zinc	2
3.10	E81673	Hex Nyloc Nut, M3 Zinc	4
3.11	E83550	NyLoc Hex Nut, M6 Zinc	1
3.12	E82798	Flat Washer, M6x18x1.5 Zinc	1
3.13	E82270	Micro Switch	4
3.14	E81625	Shank, M5x32 Female Threaded Nylon	2
3.15	E20360	Hex Bolt M6x45 Zinc	1
3.16	E20362	Set Screw Hex Soc Dog Point M5x30 Zinc	1
3.17	E20382	Nyloc Hex Nut, M5 x 5 Zinc	2

Item#	Part #	Description	Qty.
4	E22615	Pin	2
5	E83836	Hex Bolt M5x16 Zinc	1
6	E20288	Soc Hd Cap Screw M8x30 Zinc	4
7	E20242	Pan Hd Phil Machine Screw M3x20 Zinc	2
8	E88042	Flat Hd Soc Machine Screw M6x16 Zinc	2
9	E20346	Flat Hd Soc Machine Screw M8x25 SS	2
10	E81673	Hex Nyloc Nut, M3 Zinc	2
11	E20121	Flat Washer M5x15x1.5 Zinc	2
12	E81874	Flat Washer M8x17x1.6 Zinc	4
13	E83959	Circuit Breaker 20A	1
14	E20298	Soc Button Head Screw M5x16 SS	1
15	E81046	Lock Washer M8 Zinc	7
16	E20614	Soc Hd Cap Screw M8x20 Zinc	3
17	E88299	Cover, Thermal Switch	1
18	E20576	Cap, M10x13 Threaded Poly	1
19	E22616	Circuit Breaker	1
20	E88300	Lever, Left Switch	1
21	E88301	Lever, Right Switch	1
22	E22617	Door	1
23	E88267	Switch Cam	1
24	E22618	Handle Bar	1
25	E88408	Knob	1
26	E22619	Nut	2
27	E22620	Hose Clip	1

ELECTRICAL CONTROL ASSEMBLY DIAGRAM

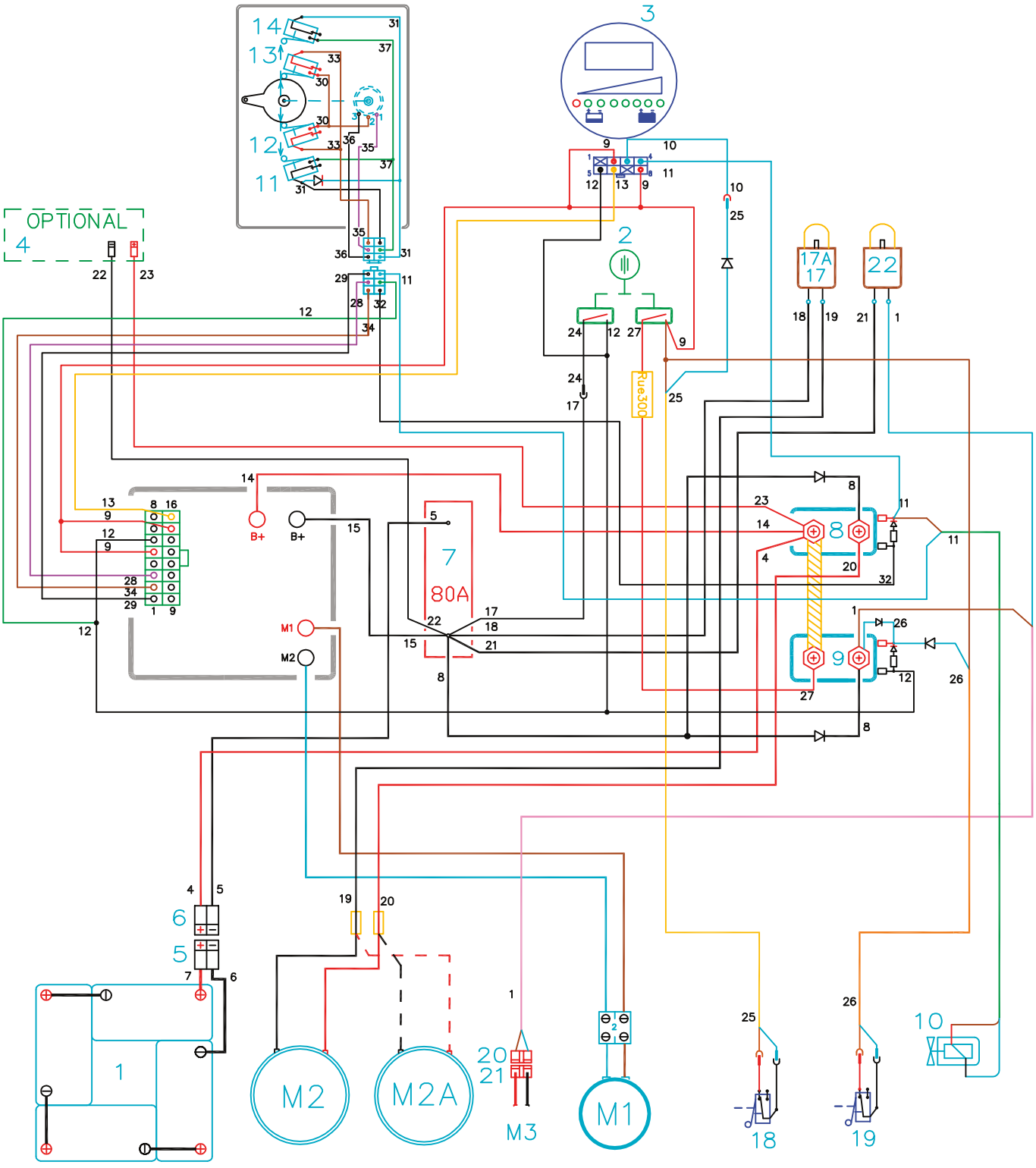


ELECTRICAL CONTROL ASSEMBLY PARTS LISTING

Item#	Part #	Description	Qty.
1	E22194	Mounting Plate	1
2	E20536	Buss Bar	1
3	E83628	Remote control switch	2
4	E20097	Hex Bolt M8x40 SS	2
5	E20248	Hex Nut, M4x4 Zinc	2
6	E83672	Hex Jam Nut, M8x5 SS	2
7	E20115	Hex Nut, M8x6.5 Brass	4
8	E20479	Spring Nut M5	2
9	E22195	Washer	3
10	E82761	Flat Washer M6x12x1.6 Zinc	2
11	E20124	Flat Washer M8x17x1.6 SS	6
12	E20252	Lock Washer M8x13x2.2 SS	2

Item#	Part #	Description	Qty.
13	E20484	Fuse Block	1
14	E83170	Fuse, 80 Amp	1
15	E20448	Bracket	1
16	E20129	Cap	4
17	E20468	Flat Hd Phil Machine Screw M5x12 Zinc	6
18	E81998	Pan Hd Phil Machine Screw M4x10 SS	3
19	E20382	Nyloc Hex Nut, M5 x 5 Zinc	4
20	E20475	Lock Washer M4 Zinc	2
21	E20301	Flat Hd Phil Machine Screw M4x20 Zinc	2
22	E82569	Variable Speed Controller	1
23	E88456	Electrical Cover Rubber Flap	1

ELECTRICAL DIAGRAM

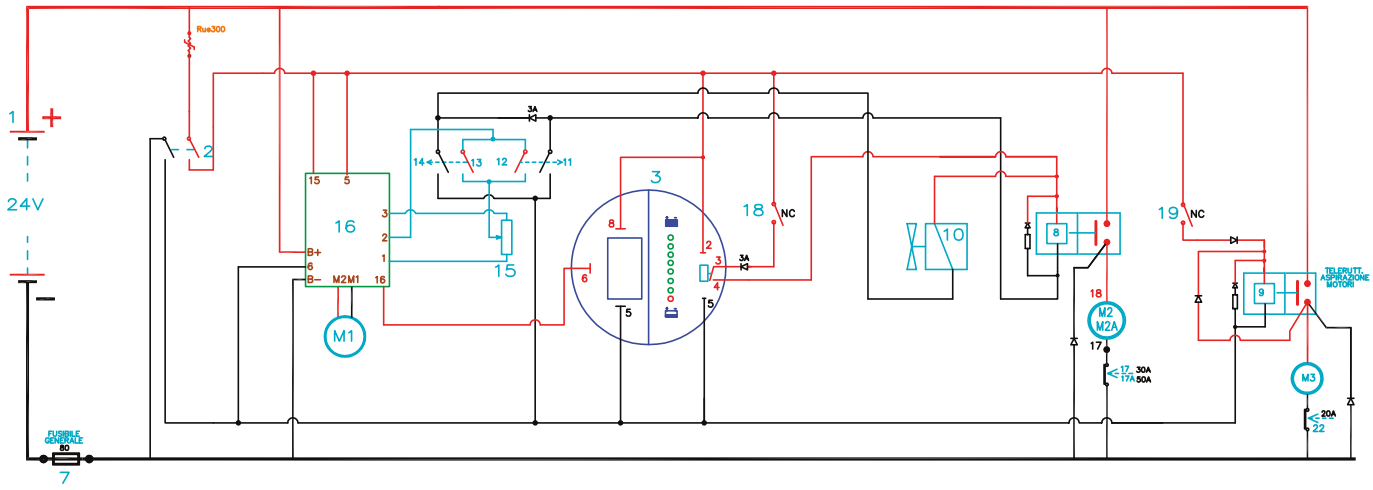


ELECTRICAL LISTING

Item#	Part #	Description
2	E82351	Key Switch Assembly w/Keys
3	E88293	Battery Check Card, Hour Meter
5	E11410	SB175 Red Electrical Connector
6	E11410	SB175 Red Electrical Connector
7	E83170	Fuse, 80 Amp
8	E83628	Remote Control Switch
9	E83628	Remote Control Switch
10	E82322	Solenoid Valve, 24v 10w 3-Port Nylon
11	E82270	Micro Switch
12	E82270	Micro Switch
13	E82270	Micro Switch
14	E82270	Micro Switch
15	E82824	Potentiometer

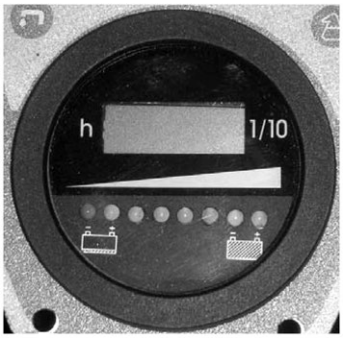
Item#	Part #	Description
16	E82569	Variable Speed Controller
17	E83952	Circuit Breaker 30A
17A	ET1002	Part Placeholder for Fimap Parts - FI1241
18	E88249	Micro Switch
19	E88249	Micro Switch
20	E20402	Electrical Connector 30A
21	E20402	Electrical Connector 30A
22	E83959	Circuit Breaker 20A
M1	E22595	Traction Motor, 250W
M2	E82738	Brush Motor 24VDC 560W
M2A	E82738	Brush Motor 24VDC 560W
M3	E88291	Vacuum Motor 24VDC 310W

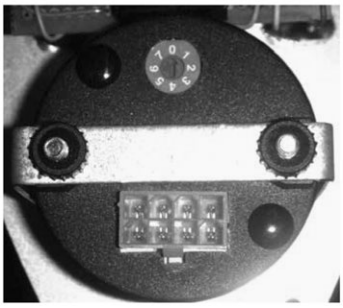
ELECTRICAL DIAGRAM



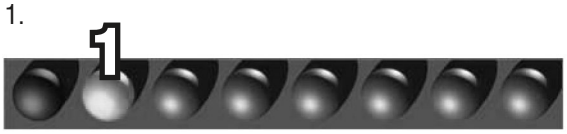
BATTERY CHECK CARD – HOUR METER

1. Verify that when turning on the machine the battery check card has the following starting sequence:
- Turning on of the LED which correspond to the set-up (red LED = “0”).
- Turning on of all the LEDs (check of the lamps)
- Turning on of the LEDs depending on the charge of the battery
2. Verify the hour meter functionality
- To verify which is the set-up you turn on the machine and check which is the first LED that turns on. Counting the LEDs since the left side any LED correspond to a position and the LED which turn on correspond to the current set-up.





- Verify that if the machine uses wet cell batteries the adjustment is on position 1.

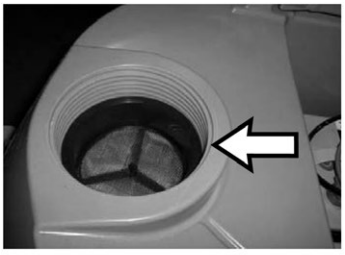


- Verify that if the machine uses GEL batteries the adjustment is on position 4.

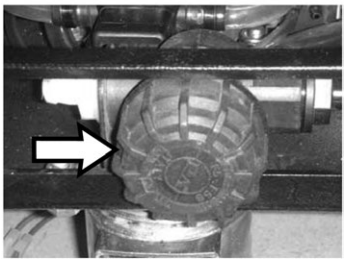
WARNING: A wrong set-up of the battery control card can compromise the battery efficiency and damage then in irreversible way.

WATER PLANT INSPECTIONS

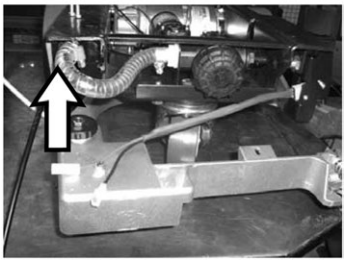
1. Verify the cleanness and functionality of the **solution filter** under the solution tank plug.



2. Check cleanness and sealing of the **solution filter**.



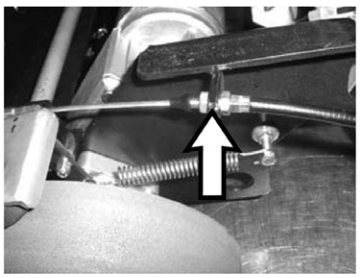
3. Confirm that solution tank is completely filled.
4. Verify the sealing of the hoses, **solenoid valve** and the **water valve**.
5. Verify that the solution, with valve completely open, falls continuously on the floor.

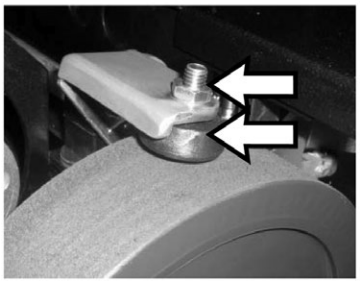


BRAKE ADJUSTMENT

1. Adjust the brake pads on the wheels to lock the wheels when the brake lever reaches the third ratchet notch.
2. To adjust the pads:

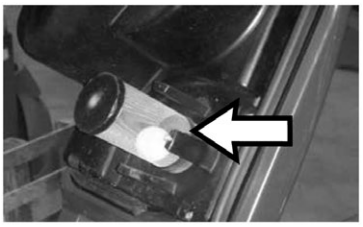
- Unscrew the **M8 jam nut**.
- Adjust the **pad**.
- Tighten the **M8 jam nut**.





VACUUM SYSTEM INSPECTION

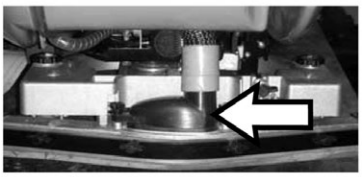
1. Confirm that the **float filter** is clean.



2. Check the air sealing of the **vacuum unit** on the recovery tank.

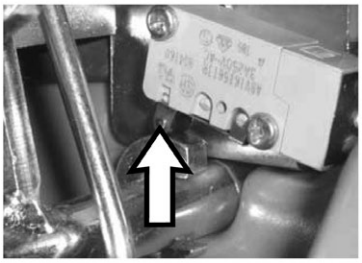
3. Verify the connections and the sealing of the vacuum hoses and the squeegee hoses.

4. Check the sealing of the **squeegee hose adapter**.



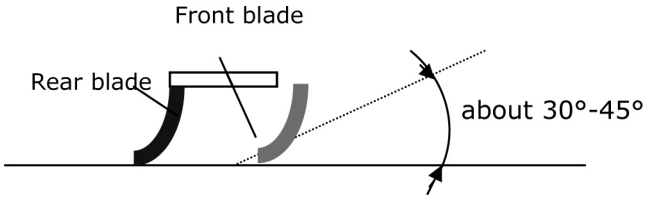
6. Vacuum micro switch adjustment:

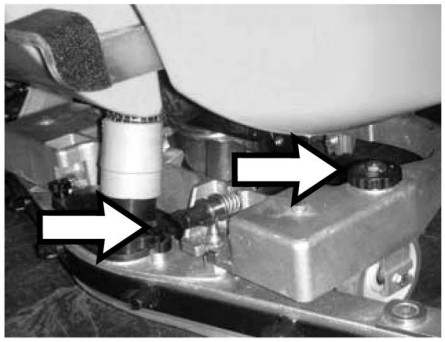
7. Adjust the vacuum micro switch in a manner that when the cam on the squeegee lift lever **pushes on the micro switch** there is 0.5 mm of clearance between the micro switch roller and the cam.



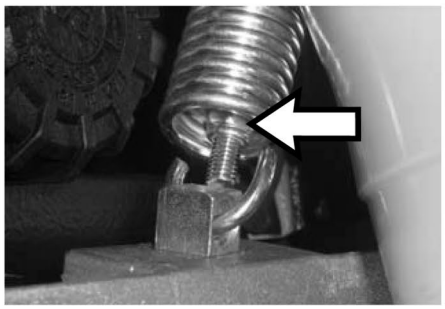
SQUEEGEE ADJUSTMENT

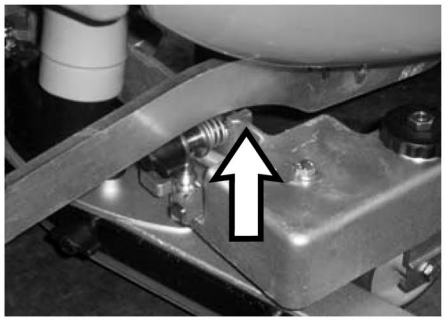
1. Adjust the **inclination adjuster** of the squeegee assembly until the squeegee blade has a uniform deflection along its entire length.
2. Adjust the height of the squeegee wheels using the **knob** such that the squeegee blade has an inclination between 30 and 45 degrees.



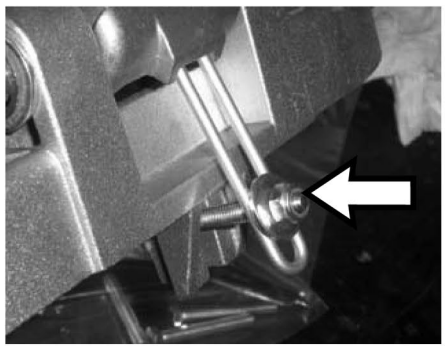


3. Verify that the squeegee assembly in up position does not interfere with the brush deck foot lever by adjusting the nyloc nut internal to the squeegee cable spring.





4. Adjust the spring tension so that the squeegee blades deflect when they contact the floor by tightening the nyloc nut.



CHECK LIST

Functional check of the machine

- ☐ Check the functionality of switches and warning lamps.
- ☐ Check the functionality of the switch lever.
- ☐ Check the functionality of the brush deck.
- ☐ Check the functionality of the brush motor.
- ☐ Check the functionality of the solenoid valve.
- ☐ Check the functionality of the vacuum motor.
- ☐ Check the functionality of the brakes.
- ☐ Check the functionality of batteries and power cables.

Functional test of the machine

- ☐ Fill the tanks completely and verify that there are no leaks.
- ☐ Adjust the inclination and the height of the squeegee blades.
- ☐ Adjust the inclination of the brush deck.
- ☐ Check the function of the parking brake.
- ☐ Verify the forward and backward movement, acceleration and braking.

Final test

- ☐ Check all the functions: washing, drying and movement.

MAINTENANCE SCHEDULE

	Stealth™ ASC24BT		RECOMMENDED SERVICE INTERVALS (HOURS)					
Machine components	**Suggested replacement**	**DAILY**	**50**	**100**	**250**	**400**	**750**	**1,000**
BATTERIES	Check water level and add if necessary	DAILY						
	Check cables, connections and plugs		50					1,000
	Check cleanless of machine battery tray				250			
ELECTRIC	Check state of power contactors and fuses			100				1,000
	Check state of electric cables crossing the machine					400		
SOLUTION TANK	Check cleanless of solution filter	DAILY					750	
	Check solenoid valve, hoses and connections to the brush head			100		400		
	Check flow of water on the brushes				250			
RECOVERY TANK	Check the cleanless of the tank	DAILY						
	Check filter and float system	DAILY						1,000
	Check vacuum and drain hoses	DAILY						1,000
	Check vacuum gasket and drain hoses plugs		50					1,000
BRUSH DECK	Check tension and wear of belt and state of the bearings				250			1,000
	Check the right brush inclination			100				
	Check brush attachments (rust, ruined parts, cracks)				250			
	Check wear of spraying guard		50			400		
	Check wear of brushes		50	100				
	Check function of the lifting/lowering element				250			
BRUSH MOTOR	Check cleanless of air cooling inlet			100				
	Check wear of carbon brushes				250	400		
	Check amps consumption and noise level						750	
VACUUM MOTOR	Check noise level and cleanless of the inlet hose			100				
	Check wear of carbon brushes				250		750	
	Check the vacuum performance, replace if necessary							1,000
SQUEEGEE	Check cleanless of the squeegee blades and the squeegee adjustment	DAILY						
	Check wear of central squeegee blades		50	100				
	Check wear of front squeegee		50		250			
	Check squeegee yoke					400		
TRACTION SYSTEM	Check wear of motor carbon brushes				250		750	
	Check cleanless air cooling inlet			100				
	Check wear of wheels					400		
	Check state of bearings					400		
	Check the function of the parking braking				250			
	Check wear of brake pads					400		1,000

Suggested replacement ☒

WEAR ITEMS

Stealth™ ASC24BT

PART NUMBER	DESCRIPTION
E22512	Brush, General Purpose, 0.4mm
E22516	Brush, Medium Duty, 0.6mm
E22517	Brush, Tynex Grit, 0.9mm
E22503	Side Squeegee, 30 SH Gum Rubber
E22513	Side Squeegee, 40 SH Gum Rubber
E88953	Squeegee Blade Kit, 42.75"
E22264	Squeegee Blade Kit Poly, 42.75"
E22265	Squeegee Blade Kit Latex, 42.75"
E22557	Brush Drive Belt
E22559	Brush Drive Belt
E86277	Battery 6V 235 AH Wet
E88031	Battery 6V 200AH AGM
E88036	Charger 24VDC 25AMP 120VAC EXT WET RSB5175
E88548	Charger 24VDC 25AMP 120VAC EXT AGM/GEL RSB175

BETCO US WARRANTY POLICY

10 year coverage

Subject to the conditions stated below, Betco warrants parts and labor on rotationally molded polyethylene tanks/housings and injection molded vacuum head assemblies to be free from defects in materials and workmanship for a period of ten years to the original purchaser.

3 Year Coverage

Subject to the conditions stated below, Betco warrants parts and labor on all other Betco components to be free from defects in materials and workmanship for a period of three years to the original purchaser.

1 Year Coverage

Subject to the conditions stated below, Betco offers a limited warranty on parts and labor on the following equipment: parts and accessories to be free from defects in materials and workmanship for a period of one year to the original purchaser.

- PowerUp™ 14 Upright Vacuum: #E29990-00
- Bac Pac Lite Vacuum: #85903-00
- FiberPRO® Floor Dryer: #85507-00
- WORKMAN™ Series Vacuums: #85024-00, #85025-00, #83012-00, #85027-00
- All Tools and Accessories
- All Battery Chargers
- All Batteries are pro-rated for 1 year

Allowable Travel Time Warranty Reimbursement:
Eligible equipment: All battery and propane powered equipment products. Warranty period: 90 days from date of sale to the original purchaser. A maximum 180 mile round trip at 50 cents per mile will be allowed for warranty consideration.

Propane Machine Warranty:
Kawasaki engines are warranted by Kawasaki for a period of 2 years against manufacturer defects. All other components (except wear items)* are warranted by Betco for a period of 3 years.

***Wear Items exempt from Warranty consideration include but may not be limited to: power cords, transport wheels, vacuum bags, belts, squeegee blades, pad drivers, clutch plates, handle grips, filters, screens, throttle cables, brushes and carbon brushes.**

Subject to the conditions and exceptions stated in this warranty, Betco warrants the Betco products to be free from defects in material and workmanship, under normal use and service, for the periods listed under the warranty policy to the original purchaser. At any time during the warranty period, Betco will furnish replacement parts for the Betco parts to the original purchaser. Such parts will be furnished and charged including transportation costs, to the original owner through any Betco authorized Service Distributor. If the original part is returned within the warranty policy period from date of delivery for inspection by Betco and is found to be defective the owner will be credited for the cost of replacement parts plus shipping and handling. Replacement parts that have become defective through wear or abuse are not included in this warranty.

This warranty does not apply to damage or defect caused by accident, misuse. Negligence, fire, or to any Betco product which has been serviced or repaired by other than an authorized Betco Service Distributor or Betco factory personnel. This warranty is void if products are used for any purpose other than that which was intended. There are no other warranties expressed or implied. In no event shall Betco be liable for incidental or consequential damages or any damage to person or property. (Please note some states do not allow the exclusion or limitations for incidental and consequential damages).

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